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PANAMA CANAL COMMISSION

ANNUAL REPORT

FISCAL YEAR ENDED SEPTEMBER 30, 1985





PANAMA CANAL COMMISSION

Balboa, Republic of Panama OFFICE OF THE ADMINISTRATOR

FROM THE ADMINISTRATOR

It is a pleasure to submit the annual report of the Panama Canal Commission, for fiscal year 1985.

At the end of this fiscal year, the sixth year of operation of the Panama Canal Commission, the Canal remains in excellent operating condition and its facilities and equipment continue to be improved and modernized. Traffic passing through the waterway showed a modest improvement with an increase in oceangoing transits to 31.9 ships per day from 31.1 per day in 1984. Both Panama Canal net tonnage and tolls revenue rose 4 percent from FY 1984 levels.

Projects of major significance to Canal customers completed or underway during the year included: overhaul of Gatun Locks miter gates and installation of lateral culvert bulkhead slots, construction of a vessel tie-up station in Gaillard Cut, upgrading of the Marine Traffic Control vessel monitoring system, rehabilitation of the locks fire fighting system, conversion of Canal buoys to conform to international standards, widening of Bohio Curve in Gatun Lake, enhancement of Commission reservoir management and weather monitoring capabilities, and the awarding of a contract for three new towing locomotives.

The performance of the Commission in accomplishing these and other multifaceted modernization and maintenance programs under the challenging conditions of treaty implementation demonstrates that a skilled and capable work force has been retained to operate the Canal. To ensure that the necessary strengths are available in the critical years ahead, training programs continue to receive high priority, with a major emphasis on increasing the participation of qualified Panamanians commensurate with Treaty requirements. Panamanians now compose 80 percent of the permanent Commission work force with many occupying key management and supervisory positions throughout the organization.

As we look to the future, I am certain that the spirit of cooperation and commitment evident in the Commission work force will enable the Panama Canal to meet the rapidly changing demands of the maritime industry.

D. P. McAuliffe,

Administrator.

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TABLE OF CONTENTS

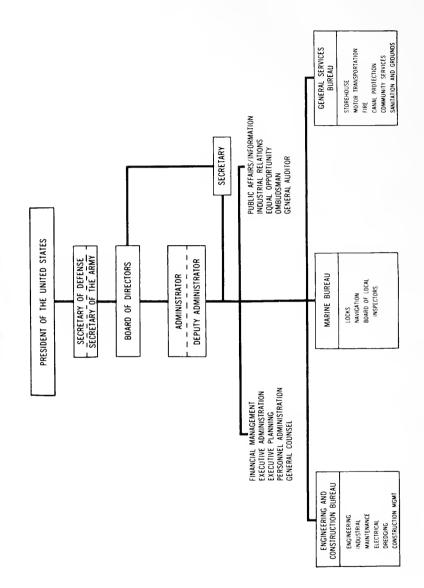
PANAMA CANAL COMMISSION

		Page
	Organization Chart	VI
IN	NTRODUCTION	
	Organization	1
	THE CANAL	i
	Tolls Rates	2
	BOARD OF DIRECTORS	3
	OFFICIALS IN THE REPUBLIC OF PANAMA	3
	Officials in Washington, D.C.	3
		,
Cl	HAPTER I—CANAL TRAFFIC	
	Traffic	5
	COMPARATIVE HIGHLIGHTS OF OPERATIONS	6
	COMMODITIES AND TRADE ROUTES	6
		Ü
CI	HAPTER II—CANAL OPERATIONS	
	Transit Operations	13
	Maintenance and Related Canal Projects	15
		-
CI	HAPTER III—SUPPORTING OPERATIONS	
	LOGISTICAL SERVICES	17
	COMMUNITY SERVICES	18
	SANITATION AND GROUNDS MANAGEMENT	18
	Transportation Facilities	19
	Public Utilities and Energy	20
	Fire Protection	20
	Canal Protection	21
	HEALTH AND SAFETY	21
Cŀ	HAPTER IV—ADMINISTRATION AND STAFF	
	PERSONNEL: FORCE EMPLOYED AND RATES OF PAY	23
	EQUAL EMPLOYMENT OPPORTUNITY PROGRAM	24
	PUBLIC AFFAIRS	24
	Ombudsman	25
	INDUSTRIAL RELATIONS	25
	GENERAL COUNSEL	26
Cŀ	HAPTER V-FINANCIAL REPORT	
	NARRATIVE STATEMENT	27
	Results of Operations	27
	Canital Expenditures	27

CONTENTS

-			_	
H'i	nar	ıcial	1 9	hle

TABLE	I.—Statement of Financial Position
TABLE	2.—Statement of Operations and Non-Interest-Bearing Investment
TABLE	3.—Statement of Changes in the Investment of the United States Government
TABLE	4.—Statement of Changes in Financial Position
TABLE	5.—Statement of Status of Appropriations
TABLE	6.—Statement of Property, Plant, and Equipment
	Notes to Financial Statements
CHAP	TER VI—STATISTICAL TABLES
	Shipping Statistics
TABLE	1.—Panama Canal Traffic—Fiscal Years 1976 through 1985
TABLE	and 1984
TABLE	3.—Canal Traffic by Flag of Vessel—Fiscal Year 1985
TABLE	4.—Classification of Canal Traffic by Type of Vessel—Fiscal Year 1985.
TABLE	5.—Laden and Ballast Traffic by Flag of Vessel—Fiscal Year 1985
TABLE	6.—Segregation of Transits by Registered Gross Tonnage—Fiscal
TABLE	7.—Principal Commodities Shipped Through Canal by Fiscal Years
TABLE	8.—Origin and Destination of Commercial Cargo Through the Panama Canal from Atlantic to Pacific During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas
TABLE	9.—Origin and Destination of Commercial Cargo Through the Panama Canal from Pacific to Atlantic During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas
TABLE	10.—Important Commodity Shipments Over Principal Trade Routes— Atlantic to Pacific
TABLE	11.—Important Commodity Shipments Over Principal Trade Routes— Pacific to Atlantic
TABLE	12.—Principal Canal Commodities by Direction—Fiscal Year 1985
	Other Statistics
	13 Water Supply and Usage
	14.—Dredging Operations
	15.—Electrical Power Generated
TABLE	16.—Fire Statistics



INTRODUCTION

ORGANIZATION

The Panama Canal Commission is an agency of the Executive Branch of the United States Government, provided for by the Panama Canal Treaty of 1977, and established by the Panama Canal Act of 1979 (93 Stat. 452; 22 U.S.C. 3601 et seq), enacted September 27, 1979. The authority of the President of the United States with respect to the Commission is exercised through the Secretary of Defense and the Secretary of the Army. The Commission is supervised by a nine-member Board. Five members are nationals of the United States and four are Panamanians. Board members who are U.S. nationals are appointed by the President with the advice and consent of the Senate.

The Commission was established to carry out the responsibilities of the United States with respect to the Panama Canal under the Panama Canal Treaty of 1977. In fulfilling these obligations, the Commission manages, operates, and maintains the Canal, its complementary works, installations, and equipment, and provides for the orderly transit of vessels through the Canal. The Commission will perform these functions until the treaty terminates on December 31, 1999, when the Republic of Panama will assume full responsibility for the Canal.

The Commission is expected to recover through tolls and other revenues all costs of operating and maintaining the Canal, including interest, depreciation, capital for plant replacement, expansion and improvements, and payments to the Republic of Panama for public services and annuities, in accordance with paragraph 5 of Article III and paragraphs 4(a) and (b) of Article XIII, respectively, of the Panama Canal Treaty of 1977. Revenues from tolls and all other sources are deposited in the U.S. Treasury in an account known as the Panama Canal Commission Fund. Appropriations for operating expenses and capital improvements are enacted annually by the Congress and are limited to the sum of the estimated receipts for the year, plus any unexpended balances in the Panama Canal Commission Fund.

THE CANAL

The Panama Canal is a lock-type canal approximately 51 miles long from deep water to deep water. The minimum width of the navigable channel is 500 feet. Navigable channel depth varies according to the

2 INTRODUCTION

amount of water available in Canal storage areas. The normal range of permissible transit draft is from 38 feet to 39 feet 6 inches tropical fresh water.

Vessels transiting the Canal are raised in three steps to the level of Gatun Lake, the principal source of Canal water, then lowered to sea level again in three steps. The three sets of Canal locks are paired so as to permit simultaneous lockage of two vessels in the same direction or in opposite directions.

Since August 15, 1914, the official date of its opening, the Panama Canal has served world trade virtually without interruption. Through this fiscal year, a total of 650,799 vessels of all types have transited with 546,084 or 83.9 percent of the total being of the oceangoing commercial class.

TOLLS RATES

Panama Canal tolls rates were increased approximately 9.8 percent on March 12, 1983. Tolls rates are: (a) On merchant vessels, Army and Navy transports, tankers, hospital ships, supply ships, and yachts, when carrying passengers or cargo: \$1.83 per net vessel ton of 100 cubic feet of actual earning capacity. Such tonnage is determined in accordance with the "Rules of Measurement of Vessels for the Panama Canal;" (b) on such vessels in ballast, without passengers or cargo: \$1.46 per net vessel ton; and (c) on other floating craft: \$1.02 per ton of displacement.

By treaty, the United States continues to provide to Colombia free transit through the Canal of its troops, materials of war, and ships of war.

BOARD OF DIRECTORS Ending Fiscal Year 1985

Honorable William R. Gianelli. Chairman, Board of Directors Panama Canal Commission 2000 L Street, NW., Suite 550 Washington, D.C. 20036

Honorable Luis A. Anderson Secretary General Interamerican Regional Labor Organization Mexico, D.F.

Honorable John A. Bushnell Deputy Chief of Mission U.S. Embassy Buenos Aires. Argentina

Honorable Fernando Cardoze Panama, Republic of Panama

Honorable Andrew E. Gibson Short Hills, New Jersey

Honorable Oyden Ortega Panama, Republic of Panama

His Excellency Carlos Ozores Panamanian Ambassador to Spain Madrid, Spain

Honorable William Sidell Poway, California

Honorable William W. Watkin, Jr. Beaufort, South Carolina

Executive Committee

Honorable William R. Gianelli.

Chairman

Honorable Fernando Cardoze

Honorable Oyden Ortega

Honorable William Sidell

Honorable William W. Watkin, Jr.

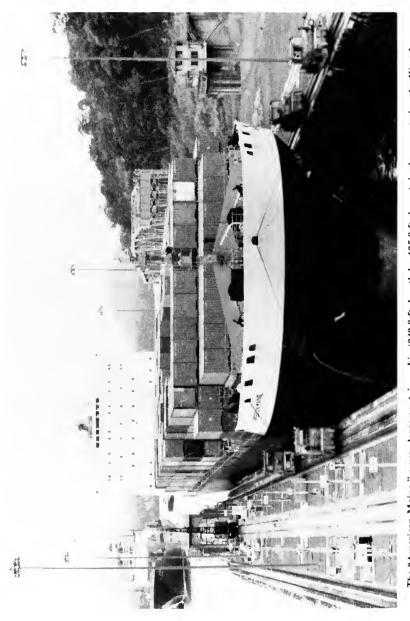
Cut Widening Feasibility Committee

Honorable Fernando Cardoze, Chairman Honorable Andrew E. Gibson Honorable Oyden Ortega Honorable William W. Watkin, Jr.

OFFICIALS IN THE REPUBLIC OF PANAMA

OFFICIALS IN WASHINGTON, D.C.

Secretary MICHAEL RHODE, Jr.



The "American Maine," a very large container ship (949.8 ft. length by 105.8 ft. beam), is shown entering the West Lane of Miraflores Locks on a Northbound transit.

Chapter I CANAL TRAFFIC

TRAFFIC

Most elements of Canal traffic improved from prior year levels during fiscal year 1985. Cargo shipments through the Canal, however, decreased relative to the prior year. The gains in traffic without growth in cargo were primarily due to a rise in average ship size and an increase in low density commodities.

Oceangoing transits in fiscal year 1985 increased 2.4 percent to 11,654 or 31.9 vessels daily from 11,384 or 31.1 daily the prior year. Vessels owned or operated by the U.S. Government and free Colombian and Panamanian Government vessels made 139 transits during the year compared with 154 transits in fiscal year 1984.

Average ship size increased during fiscal year 1985 primarily as a result of transits by large, third generation container vessels deployed in new, round-the-world services. The increase was particularly concentrated in vessels with beams of 100 feet and over. Transits in this size category rose 9.8 percent to 2,382 or 20.4 percent of total oceangoing transits from 2,170 or 19.1 percent of total oceangoing transits in fiscal year 1984. Transits by vessels having beams of 80 feet and over accounted for 5,514 or 47.3 percent of total oceangoing transits compared with 5,496 or 48.3 percent of total oceangoing transits in the prior year. Average size of oceangoing commercial vessels, in terms of Panama Canal net tonnage, rose to 14,676 tons in fiscal year 1985 from 14,461 tons in 1984.

Total Panama Canal net tonnage increased 4.0 percent to 170.3 million in fiscal year 1985 from 163.8 million tons in the prior year. Correspondingly, tolls revenue rose 4.0 percent to \$300.8 million from the \$289.2 million in 1984.

A two-year summary of the principal elements of Canal traffic and tolls revenue is shown in the following table:

COMPARATIVE HIGHLIGHTS OF OPERATIONS

	Fisca	l vear
	1985	1984
Oceangoing transits:		
Commercial	11,515	11,230
U.S. Government	129 10	137 17
	11,654	
Total		11,384
Daily average	31.9	31.1
Small transits:		
Commercial	793	802
U.S. Government	273	241
Free	46	96
Total	1,112	1,139
Total		1,137
Total cargo:		
Commercial	138,643,711	140,471,470
U.S. Government	259,524	329,607
Free	23	59
Total	138,903,258	140,801,136
Total Panama Canal net tons and reconstructed displace-	170,338,118	163.833,672
ment tonnage	170,338,118	103,833,072
Transit revenue:		
Commercial tolls	\$298,562,452	\$286,754,765
U.S. Government tolls	2,236,404	2,400,270
Tolls revenue	\$300,798,856	\$289,155,035
II. I	C(1.034.013	CEV 021 042
Harbor pilotage, tug, launch, and other services	\$61,824,017	\$58,931,942
Total transit revenue	\$361,824,017	\$348,086,977

COMMODITIES AND TRADE ROUTES

Oceangoing commercial cargo totaled 138.6 million long tons during fiscal year 1985, with twelve key commodity groups accounting for 85.0 percent of that total. The groups, shown on page 10, have maintained relatively stable levels of importance to Canal traffic in recent years. In fiscal year 1984, the proportion observed for these commodity groups was 86.2 percent.

Despite a decline in petroleum and petroleum products, this commodity group continued to rank as the principal trade in fiscal year 1985, accounting for 19.3 percent of total oceangoing commercial cargo. The tonnage in this group totaled 26.8 million long tons, down by 12.7 percent from 30.7 million long tons the prior year. The petroleum and products movement at the Canal has been affected by sluggish conditions in these markets. Crude oil totaled 12.4 million tons, dropping 12.7 percent from

14.2 million long tons in fiscal year 1984 and petroleum products, at 14.4 million tons, registered a 12.7 percent decline from 16.5 million tons.

Grain was the second commodity group in fiscal year 1985, accounting for 17.0 percent of commercial cargo. Grain shipments totaled 23.5 million long tons, down 16.4 percent from the already depressed 28.1 million tons registered in fiscal year 1984. All components of the group, except oats and sorghum, showed decreases. The largest decline was reflected in the wheat tonnage which dropped 39.8 percent to 5.4 million long tons from the 9.0 million tons in the prior year. A number of factors accounted for the lower tonnage in the grain trade, particularly a smaller share of U.S. exports in Far East markets. Increased competition from countries such as Argentina and Australia, at the same time that some major importing countries have achieved self-sufficiency in certain grains, are factors which affected U.S. grain exports. An additional factor behind the drop in the Canal grain trade was the shift of U.S. export grain to West Coast ports, promoted by very low rail rates. Grain shipments from the U.S. to the Far East constituted 83.7 percent of the total movement, with Japan, Taiwan and China being the principal destinations.

A significant improvement was observed in the nitrates, phosphates and potash group in fiscal year 1985. This commodity group increased 20.2 percent to 11.9 million long tons from 9.9 million tons in 1984, gaining the third place in Canal major commodity groups. This trade accounted for 8.6 percent of total oceangoing commercial cargo.

Shipments of coal and coke increased 15.0 percent to 11.5 million long tons from 10.0 million tons the prior year, reversing a downward trend which began in 1983. Most of the increase was due to higher shipments to the Far East and Europe. Coal shipments to Japan, however, dropped 14.4 percent to 4.8 million long tons in fiscal year 1985, reflecting a declining U.S. market share in Japanese imports and increases in U.S. coal exports bypassing the Canal.

Other commodity groups experiencing gains during the year were ores and metals, which rose 11.5 percent to 9.7 million long tons; manufactures of iron and steel, which increased 6.9 percent to 7.8 million long tons; miscellaneous minerals, which rose 12.8 percent to 4.4 million long tons; canned and refrigerated foods, which rose 12.1 percent to 3.7 million long tons; and machinery and equipment, which was up by 9.1 percent to 2.4 million long tons.

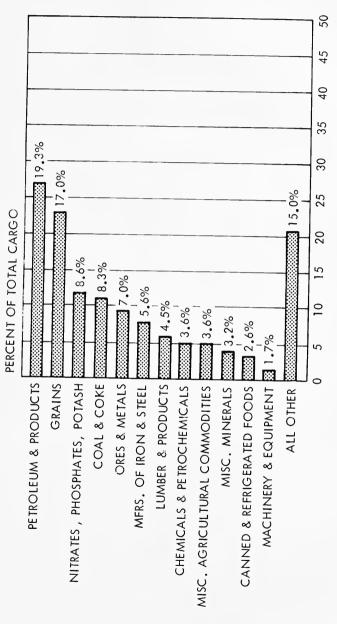
Canal trades registering decreases during the year were lumber and products, which dropped 3.1 percent to 6.2 million long tons; chemicals and petrochemicals, which dropped 3.9 percent to 5.0 million long tons; and, miscellaneous agricultural commodities, which dropped 10.7 percent to 5.0 million long tons.

8 CANAL TRAFFIC

Trade between the East Coast of the United States and Asia remained the leading route in Canal traffic, with nearly 38.0 percent of total commercial cargo shipped over this route. The total cargo tonnage plying the U.S. East Coast-Asia route declined again this year, however, from 55.2 million long tons to 52.2 million tons, a drop of 5.4 percent.

The following chart and table show the principal commodity groups moving in oceangoing commercial vessels in 1985 and a comparison of the major trade routes in fiscal years 1985 and 1984.

PRINCIPAL COMMODITY GROUPS
TRANSITING THE CANAL
OCEANGOING COMMERCIAL CARGO FY 1985



MILLIONS OF LONG TONS

Major Voyage Trade Routes in Canal Traffic

reent of	Increase or (Decrease)	na Long Il Tons Cargo		_		(15.5) (11.7)			- 1		3 4.6
Pe	m (C)	Panama Canal Net Tons	4.	3.5 0.9	30.1 24.0	(9.9) (5.3)	9.7	6)	5 4	χ.	6.3
	-	Long Tons Cargo	of tons] 55,229	13.379	4,704 2,143	4,464	4,119	4.120	2,343	115,882	24,589
ear	1984	Panama Canal Tons Tons	[In thousands of tons] 62,802 55,2	17.039	7,350	5,320	4,944	4,442	2.360 3.109	134,954	27,381
Fiscal vean		Long Tons Cargo		11,693	6.216	3,770	4,495	3,743	3.014 2.178	112,920	25,723
	1985	Panama Canal Net Tons	63.702	17,627	9.561	4,793	4.614	4,313	4,024 2,983	139,834	29,107
			Trade Route	East Coast United States-Asia	Europe-West Coast United States Canada	West Indies-Asia and Alaka and Hawaii)	U.S. Intercoasta (including states) East Coast Canada-Asia	West Indies-West Coast South Allichea	Central American Intercoastal	Asia Lunghe Cocania	SubtotalAll other routes





A berthing operation in progress at the new Tie-Up Station—recessed in the West Bank of the Canal—North of Pedro Miguel Locks.

Chapter II

CANAL OPERATIONS

Canal operations are comprised of Transit Operations and Maintenance and Related Canal Projects. The various functions are divided among a number of operating bureaus within the Canal agency.

TRANSIT OPERATIONS

Daily average transits by oceangoing vessels increased from the 31.1 per day during fiscal year 1984 to 31.9 per day during fiscal year 1985. Average time in Canal waters increased from 23.3 hours in fiscal year 1984 to 23.9 hours in fiscal year 1985.

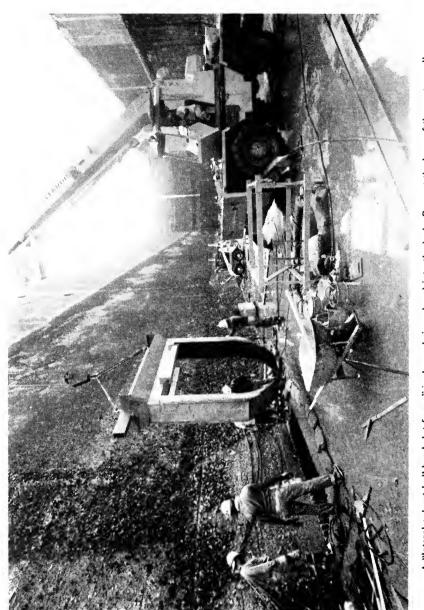
Fiscal vear	Vessels of 600-foot length and over	Percent of total oceangoing transits	Vessels of 80-foot beam and over	Percent of total oceangoing transits
1985	3,862	33.1	5,514	47.3
1984	3,865	33.9	5,496	48.3
1983	4,157	35.1	5,869	49.5
1982	5,534	39.1	7,226	51.1
1981	4,855	34.7	6,364	45.5
1980	4,598	33.8	6,089	44.7
1979	4,089	31.3	5,503	42.1

The number of vessels transiting at more than 36-foot drafts decreased 9.6% during FY 1985 with 1,468 vessels transiting the Canal compared to 1,623 last year.* The maximum allowable draft remained at 39 feet 6 inches during the entire fiscal year.

Total jobs performed by Commission tugs increased from 33,796 in fiscal year 1984 to 34,209 in fiscal year 1985.

		l vear
	1985	1984
Oceangoing transits	11,654	11,384
Tug jobs:		
Balboa	22,991	23,242
Cristobal	11,218	10,554
Tug operating hours	54,889	55,675

^{*} Changed from 1,715 to 1.623.



A "lateral culvert bulkhead slot frame" is shown being placed into the locks floor at the base of the center wall, during the Gatun Locks overhaul.

MAINTENANCE AND RELATED CANAL PROJECTS

Dredging activities continued throughout the fiscal year and May of 1985 saw the completion of the channel deepening project, thereby providing the additional water necessary to virtually guarantee a year-round maximum draft of 39.5 feet for transiting vessels. During FY 1985, the dredges *Mindi* and *Christensen* excavated more than 1.3 million cubic yards of earth and rock.

The Bohio Curve Widening Project is proceeding on schedule. Land drilling and blasting was completed in mid-August and dredging operations are scheduled to begin in mid FY 1986. During FY 1985, the Panama Canal lateral navigational aids system was changed to conform to the International Association of Lighthouse Authorities (IALA) Maritime Buoyage System. Presently all lights, colors, and characteristics, as well as the color of their structures, conform to the IALA System.

Between October 1984 and March 1985, Miter Gates Nos. 21, 22, 23, and 24 from Gatun Locks were overhauled at the Mount Hope Industrial Division using the newly installed syncrolift. As part of the overhaul at Gatun Locks, 109 lateral culvert bulkhead slots were constructed in the east and west floors of the locks chamber. These bulkhead slots at Gatun, together with those previously installed at Miraflores and Pedro Miguel Locks, permit both lanes to remain safely in service during inspection, maintenance, or overhaul of the center and sidewall culverts. Other important maintenance work included continued efforts on the replacement and rehabilitation of the towing locomotive track system, the fendering system at Gatun Locks, and reactivation of the SIP-3 fire protection system at all three locks.

In February 1985, work began on a major modernization of the Dredge MINDI to replace the old spud-maneuvering system with a new hydraulic system mounted on a barge attached to the stern of the dredge. In addition, the cutter motor will be changed to a 900 HP unit and the main power system will be centralized. The overall cost of this project will be approximately \$3.6 million and will bring the capability of this 1937 dredge up to that of any modern dredge of its size and type.

In a continuing effort to upgrade the Commission's hydroelectric generation facilities, a new design turbine runner was installed in units No. 2 and No. 3 at Madden Dam Power Plant. The new design will reduce recurring cavitation damage repair costs and provide higher power output at high lake levels from the recently rewound and uprated generators. This work completes the project, begun in fiscal year 1984, to replace the turbine runners in all three Madden Dam units. Installation of the new Supervisory Control and Data Acquisition System (SCADA) for electrical power dispatching is progressing satisfactorily and is scheduled to be in full operation by the end of fiscal year 1986.

A solicitation for proposals to replace and upgrade the Commission telephone system was issued on July 10, 1985. The new system will replace obsolete, worn electromechanical switching equipment and provide all Commission facilities the opportunity to integrate both voice and data telecommunication services. This multi-year contract, the first of its type to

be approved by GSA for the Commission, is scheduled to be awarded in fiscal year 1986.

A new hydrographic station was constructed on the Piedras River above the Madden Reservoir to provide additional river elevation and rainfall data for early warning flood control operations. Because of the remoteness of the station, its construction required extensive helicopter support. Rio Piedras is the newest of a 30 station hydrographic network located throughout the Canal watershed.

Construction of the Vessel Tie-Up Station has been completed and the facility was accepted by the Commission on August 19, 1985. This station, located on the west bank of Gaillard Cut just north of Pedro Miguel Locks, increases lockage through-put by making it possible to moor northbound vessels awaiting transit of Gaillard Cut.

In other transit-related work, development efforts continued on the Commission's new computerized Marine Traffic Control System. This system, which will provide a major enhancement of vessel traffic management capabilities at the Panama Canal, is expected to come on line during the first quarter of FY 1986.

Miscellaneous maintenance work during the 1985 fiscal year included preparation of over 200 housing units to ensure minimum standards of safety, serviceability, and sanitation prior to their transfer to Panama. In addition, repair work on two major holes in Miraflores and Pedro Miguel locks walls was completed and a towing locomotive turntable installed on the centerwall of Miraflores Locks.

Chapter III

SUPPORTING OPERATIONS

Supporting operations of the Panama Canal Commission provided essential support services to the operation and maintenance of the waterway and the Agency's facilities, as well as to other U.S. agencies on the Isthmus and to employees and their dependents. These operations included logistical services, employee services, sanitation and grounds management, transportation facilities, public utilities, fire protection, Canal protection, health and safety, and library services.

LOGISTICAL SERVICES

The Storehouse Division provided centralized procurement, inventory management, warehousing, distribution, contract administration, and supply and property disposal support to Canal operations. A total of \$66.6 million in goods and services were procured during fiscal year 1985, including \$22.0 million from sources in Panama. Major contracting obligations included approximately \$9.2 million for Bunker "C" fuel and \$5.1 million for Navy special fuel for thermoelectric power generation, \$4.7 million for light diesel fuel for floating equipment, \$1.0 million for premium gasoline, \$1.4 million for a split-hull dump barge, and \$4.0 million for three locks towing locomotives.

Approximately \$17.9 million in Commission inventory items were issued for Commission use, and \$19.1 million was obligated for new inventory purchases during the year. A total inventory of 38,573 line items with an average landed cost value of \$28.0 million was on hand at year end.

Activities of the Excess Disposal Branch included no-cost transfers to other U.S. Government agencies of excess equipment having an original acquisition value of approximately \$899,814, while surplus property sold to the Government of Panama at fair market value amounted to approximately \$75,000.

The Logistical Support Branch in New Orleans, LA., expedited urgent purchases and coordinated all Commission cargo shipments from the United States to Panama. Under the coverage of the Military Sealift Command's contract, 12,100 measurement tons of containerized and breakbulk cargo were shipped to the Port of Balboa. An additional 3,550

tons of general cargo and vehicles were shipped under commercial contract with an ocean freight shipper from New Orleans to Las Minas, Republic of Panama.

COMMUNITY SERVICES

During fiscal year 1985, the Community Services Division managed employee housing, Commission-owned buildings, library services, and the employee fitness program for the agency.

Housing expenditures were concentrated on programs for preventive maintenance and repairs, quarters energy conservation, and enhancing the physical security of quarters used by the Commission. The agency continued its multiyear housing management plan designed to concentrate its diminishing housing requirements in selected core areas. Implementation of the plan is enabling the Commission to utilize housing and related maintenance resources in the most cost-effective manner, while at the same time preserving optimum housing accommodations for its eligible employees and meeting its ongoing responsibilities under the Panama Canal Treaty, From March to June, 1985, the Commission transferred an additional 500 housing units, excess to its needs, to the Republic of Panama. At the end of the fiscal year, the agency retained the use of 1,895 housing units for its United States-citizen and other eligible employees. This represented 44% of the inventory of approximately 4,300 units owned by the Panama Canal Company immediately prior to entry into force of the Panama Canal Treaty in 1979, indicating that a total of 56% of those units have been transferred in use to Panama in six years.

The buildings management activity, which is responsible for the maintenance and operation of Commission buildings and structures (not specifically assigned to other Commission units) and for a centralized custodial service, transferred 14 non-residential buildings no longer required by the Commission to the Republic of Panama. The Community Services Division was designated as the agency's coordinator for the implementation of Executive Order 12411 and Temporary Regulation D-71 for efficient space management.

Library Services provided mission-support information and research to all units of the Commission and maintained a collection of library and three-dimensional materials relating to the history of the Panama Canal. The division also administered a variety of duty-related as well as off-duty fitness programs and facilities for Commission employees and their dependents.

SANITATION AND GROUNDS MANAGEMENT

Approximately 2,900 acres of improved grounds were maintained within and around Commission residential areas, buildings, and the locks and industrial facilities. Vegetation control was maintained by Grounds Management Branch crews along utility line rights-of-way, earthen saddle dams, Gatun Dam, Canal bank stability drainage systems, and around the perimeters of aids to navigation towers and targets. Close coordination

with Panama officials in the transfer of responsibility for grounds care, resulted in a smooth transition of services in connection with the transfer of large blocks of Commission quarters and buildings in Coco Solo, Ancon, and other areas.

Environmental health services essential to maintain public health in the Panama Canal area were furnished by the Sanitation Management Branch. Surveillance and control of biting insects and vermin capable of transmitting disease were continued in the Canal Area with emphasis on non-chemical control methods such as drainage maintenance in lieu of extensive dispersements of chemical insecticides. Some 220 miles of surface water drainage ditches were maintained to eliminate mosquito breeding around employee work and housing areas. Requirements of specialized mosquito control measures continue to be necessary for the prevention of such major insect-borne tropical diseases as malaria, yellow fever, and dengue. Additional control efforts were directed against cockroaches, house flies, bats, rats, venomous snakes and other vermin.

Africanized honeybees continue to present ongoing problems within residential areas, at Canal work sites and on vessels transiting Canal waters. A total of 923 swarms and nests of Africanized bees were destroyed in a cooperative effort between Commission and U.S. military bee control teams this fiscal year, a 25 percent increase over the previous year's total. Nests have become more numerous and several severe stinging incidents have occurred, but no human deaths have yet occurred. Commission bee control teams handled 20 swarms on board transiting ships during the year, as compared to 12 incidents last year. A recent inadvertent introduction of Africanized bees into the central valley of California by an infested shipping container emphasizes the continuous need to provide effective bee control and maritime quarantine at the Panama Canal.

The Commission's Pacific and Atlantic sanitary landfill refuse disposal facilities handled 76,000 tons of refuse over the past year. Of the two sites, the Atlantic landfill is unique in that for the past 45 years, it has been utilized to receive all municipal refuse from the Colon metropolitan area and the U.S. military bases, in addition to that of the Commission's residential areas and Panama Canal work sites.

TRANSPORTATION FACILITIES

The Motor Transportation Division operated and maintained a consolidated motor pool of 866 vehicles designed to meet the vehicular transportation requirements of the Commission. The vehicle fleet in fiscal year 1985 included 602 trucks of various types, 208 passenger-carrying vehicles, and 56 special-purpose vehicles. Vehicle mileage decreased slightly from 7,170,000 miles in fiscal year 1984 to 7,056,706 miles in fiscal year 1985. Fully equipped shops, including a tire retreading facility and heavy duty repair shops, provided facilities for overhauls, maintenance and repairs to the Motor Transportation Division fleet and equipment of other Commission units. In addition, some services were contracted out where they were available in required quantity and quality in Panama. The

vehicle inspection facility located within the Motor Transportation Division, Ancon area garage, also was used by the Government of Panama to conduct inspections of privately-owned vehicles and by the Motor Transportation Division to perform Commission vehicle inspections.

PUBLIC UTILITIES AND ENERGY

Panama Canal Commission facilities include electric power generation and distribution systems, communication systems, water purification and distribution systems, and a central chilled water air conditioning system for certain public buildings on the Pacific side.

Total Canal area energy demand during fiscal year 1985 was 497 gigawatt hours, a 7.5 percent decrease from the 533 gigawatt hours used last year. The peak hourly demand of 81 megawatts reached on May 3, 1985, was 3.6 percent below the peak of 84 megawatts in the prior year. Agency-directed energy consumption in fiscal year 1985 for electrical power and fuel, calculated together in Btu's, was reduced a total of 28.9 percent in relation to the fiscal year 1975 baseline established by the Federal Energy Management Program. Electrical power consumption by the Commission, 71.6 gigawatt hours, was 3.7 percent below the usage levels recorded for comparable operations in fiscal year 1975; fuel consumption, excluding fuel for power generation, 3.9 million gallons, was 49.4 percent below the corresponding 1975 fiscal year baselines.

The water treatment and distribution systems operated by the Commission provide potable water for the Canal area and areas of the Republic of Panama. The Pacific side system serves the Canal area, Panama City, and suburban areas; and the separate Atlantic side system serves the Canal area, the city of Colon, and suburban areas. During fiscal year 1985, the two systems supplied 3,182 million cubic feet of potable water to consumers, a decrease of about 0.4 percent from the previous year. Water consumed by Panama City and Colon metropolitan areas amounted to approximately 51.1 million gallons per day.

FIRE PROTECTION

The Panama Canal Commission Fire Division, in conjunction with the Republic of Panama Fire Corps, is responsible for providing fire protection, firefighting, and rescue operations in Canal operating areas, defense sites, civilian and military areas of coordination, and shipboard firefighting on all vessels in Canal waters.

During fiscal year 1985, there were 758 fires (excluding ships), causing a loss of \$385,892 as compared to 563 fires during fiscal year 1984 which resulted in a loss of \$384,952. There were 20 ship fires during this year versus 17 in the previous year. Ship fire losses in fiscal year 1985 were \$353,405 as compared to \$243,112 the year before. A variety of hazardous materials type emergency responses totaled 64. Ship hazardous cargo stand-bys and marine/dock emergencies totaled 811.

CANAL PROTECTION

The Canal Protection Division is responsible for providing plant protection and physical security for Panama Canal Commission vital installations and facilities devoted to the operation, maintenance, and management of the Panama Canal. Physical security improvement projects continued during the fiscal year in accordance with the program designed to upgrade security systems and hardware and will continue over the next several years. In addition, a new in-service employment concept for filling guard vacancies began during the year using the upward mobility program, which should improve the quality of guard personnel and help reduce turnover.

HEALTH AND SAFETY

The Occupational Health Division and the Safety Division are components of the Office of Personnel Administration. The Personnel Director is the Designated Agency Safety and Health Official.

During fiscal year 1985, the Commission experienced 748 performance-of-duty accidents in which the employees required medical attention beyond first aid, as compared to 675 such accidents in fiscal year 1984. Though the incident rate rose from 7.7 in fiscal year 1984 to 9.1 per 200,000 man-hours worked in fiscal year 1985, there were no fatalities recorded in fiscal year 1985, as compared to the ten experienced in fiscal year 1984. The sharp decline in fatal accidents can be attributed in part to intensified safety and health awareness, increased training and publicity, issuance and implementation of various new criteria and policies covering safe and healthful work practices and use of protective equipment, such as safe PCB handling, working in confined spaces, and mandatory seat belt use. Additionally, the Commission's alcohol and drug abuse rehabilitation program was strengthened through increased emphasis on counseling abusers, thereby serving to further ensure a safe working environment.



Chapter IV

ADMINISTRATION AND STAFF

PERSONNEL FORCE EMPLOYED AND RATES OF PAY

At the end of fiscal year 1985, the total Isthmian force of the Commission was 8,435 compared to 8,090 employees in fiscal year 1984. Approximately 82 percent of the 1985 Isthmian force was comprised of Panamanians; 2 percent of third country nationals; and the remaining 16 percent of U.S. citizens. Of the total Isthmian force, 7521 were permanent and 914 temporary. There was a U.S. Coast Guard officer assigned to the Commission on the Isthmus. In addition, fourteen persons, all U.S. citizens, were employed by the Commission in New Orleans and Washington, D.C.

Rates of pay were based on a U.S. Wage Base for positions which historically have been hard to fill, and on a Canal Area Wage Base for other occupational categories. Although originally scheduled for elimination in October 1985, the last step of a three-stage plan to phase out the New Wage System was for various administrative reasons implemented on September 29, 1985; this eliminated the remaining difference between the New Wage System and pre-treaty wage schedules. The following table shows the Commission civilian permanent Isthmian work force by citizenship and wage base.

Fiscal Year 1985	U.S	Non- U.S.	Total
Canal Area Wage Base	119	4,221	4,340
U.S. Wage Base			
Total	1,340	6,181	7,521

The total Commission payroll was \$182.7 million in fiscal year 1985 compared to \$178.3 million in fiscal year 1984. Of the total Commission fiscal year 1985 payroll, \$118.5 million was paid to non-U.S. citizen employees and \$64.2 million to U.S. citizen employees.

EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

Between fiscal year 1984 and 1985, the number of EEO complaints formally filed with the Agency continued to decrease. A breakdown, by citizenship grouping, of formal complaints filed with the Agency during fiscal years 1984 and 1985 follows:

	Fiscal year 1985 1984 6 4 0 4	vear
Citizenship Group	1985	1984
United States	6	4
Non-United States	0	4
Total	6	8

This continuing decrease in the number of EEO complaints reflects the growing number of employees utilizing the grievance procedures negotiated under the Agency's collective bargaining agreements.

Panamanians continued to increase as a percentage of total permanent work force as follows:

	Fiscal	year 1985	Fisca	vear 1979
United States Citizens	6,000	(18.0%) (79.6%)	2,105 5,523	(26.4%) (69.2%)
Third Country Nationals	181	(2.4%)	350	(4.4%)
Total	7,535	(100.0%)	7,978	(100.0%)

Over the six-year period, since October 1, 1979 through September 30, 1985, that the Panama Canal has operated under treaty mandates for increasing the participation of Panamanians, the Agency's total permanent work force decreased 5.6%, while the number of Panamanians rose by 8.6%. This trend of increased participation cuts across all wage categories and pay levels in the Agency.

Between Fiscal Years 1984 and 1985, there was little variation in composition of the total permanent work force on the basis of sex:

	Fiscal	rear 1985	Fisce	al vear 1984	
Male	6,744	(89.5%)	6,722	(89.7%)	1
Female	791	(10.5%)	775	(10.3%)	

PUBLIC AFFAIRS

During fiscal year 1985, the Office of Public Affairs expanded its activities in support of marketing efforts and customer relations in addition to providing media coverage of Panama Commission activities locally and internationally. Through the Commission publication, Spillway, and local press releases, employees were provided information on significant milestones in treaty implementation which affected their work and daily lives as well as news of Canal operations and Commission policies.

The Graphic Branch provided support to the foregoing activities, and produced a variety of audio-visual aids, including slide briefings to assist in official orientations for visitors to the Canal; two multi-image shows, a three projector one for the topographical model at Miraflores Locks and a

12-projector one for use at local and international maritime expositions and conferences. A new information film, "The Vital Element", to stress the importance of preserving the Canal's watershed, was also produced.

During the year, the Guide Service handled a total of 280,480 visitors at Miraflores and Gatun Locks and conducted 843 VIP tours. Among the visitors were officials of the shipping industry, representatives of television networks, writers for news, travel, and shipping industry publications, producers of motion picture documentaries, and government and business officials from all over the world.

OMBUDSMAN

The Office of the Ombudsman, established by the Implementing Legislation for the Panama Canal Treaty of 1977, continued to respond to employee and dependent complaints, grievances, and request for information. Generally, complaints required the Ombudsman to investigate administrative problems, inefficiencies, omissions, and policy conflicts caused within the Panama Canal Commission and other U.S. Government agencies on the Isthmus as a result of the treaty. In resolving complaints, the widest latitude possible was applied to consideration of problems affecting employee morale and quality of life.

During fiscal year 1985, over 1,962 requests for information and/or assistance were recorded by the Ombudsman. As in the previous year, the majority of the Ombudsman's work concerned Commission employees and those employees who were transferred with their functions from the Panama Canal Company/Canal Zone Government to the Department of Defense.

INDUSTRIAL RELATIONS

With the exception of the pilot bargaining unit, labor-management relations within the Commission during the past year have been marked by routine contract administration activity. Communication between labor and management was generally good and unions continued to enjoy access to the Commission's top management officials. There was an increased awareness by management officials of the obligation to deal with the unions as part of the process of effecting changes in the work place. Labor-management concerns of a pressing nature received prompt attention, and resort to third party dispute resolution was minimal.

Renegotiation of the basic collective bargaining agreement between the Commission and its pilot employees, which began in February 1984 and resulted in impasse prior to the end of fiscal year 1984, was not brought to a conclusion until January of 1985. The agreement that emerged and which was imposed by the Federal Service Impasses Panel, although less generous than the prior agreement, restored a necessary balance to the relationship between the Commission and the pilots. The change, however, was not well accepted and many pilots have refused to embrace the new agreement. The result has been full resort by the union to the entire panoply of dispute

resolution machinery in a campaign against management initiatives and many aspects of the new collective bargaining agreement.

GENERAL COUNSEL

Legislation has been introduced in the 99th Congress to amend the provisions of the Panama Canal Act of 1979 pertaining to vessel damage claims. This bill, H.R. 729, was passed by the House of Representatives on July 22, 1985. By the close of fiscal year 1985, the Senate Armed Services Committee had not held hearings on bill H.R. 729. This bill is virtually identical to bills introduced in both Houses of the 98th Congress, which failed to reach the floor of either House before the end of that Congressional session.

The new bill, H.R. 729, if enacted, would transfer from the Congress to the Commission the authority to settle and pay claims of more than \$120,000 for damage to vessels which occurs outside the locks of the Canal and would subject the Commission to suit on non-locks accidents by claimants who are not satisfied by the Agency's findings, determinations or awards with respect to such claims. In addition, the bill would protect the General Fund of the Treasury from liability for accidents, allow the Commission to purchase catastrophic insurance and set a time limitation on the filing of claims.

Chapter V

FINANCIAL REPORT

FINANCIAL STATEMENTS FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 1985

The financial statements of the Panama Canal Commission, appearing as Tables 1 through 6, with accompanying notes, present the financial position of the Commission at September 30, 1985, and the results of its operations for the fiscal year then ended.

The accounts and statements of the Panama Canal Commission have been examined by the Office of General Auditor of the Commission and are subject to examination by the United States General Accounting Office. Detailed audit reports of the United States General Accounting Office are directed to the Congress and are presented as Congressional documents.

Summary information concerning operating results and capital expenditures follows:

RESULTS OF OPERATIONS

Net revenue from operations amounted to \$1.1 million. This amount is payable to the Government of Panama pursuant to the provisions of paragraph 4(c) of Article XIII of the Panama Canal Treaty of 1977 subject to the limitations set forth in chapter 3, subchapter V, section 1341(b)(2) of the Panama Canal Act of 1979 (Public Law No. 96-70).

CAPITAL EXPENDITURES

Accrued capital expenditures for fiscal year 1985 amounted to \$29.2 million. The principal expenditures were \$4.1 million for installation of bulkhead slots at Gatun Locks, \$3.9 million for replacement of tugboats, \$2.0 million for the purchase of three split hull dump barges, \$1.7 million for the Vessel Tie-Up Station, \$1.4 million for upgrading Marine Traffic Control System, \$0.9 million for the installation of the Supervisory Control and Data Acquisition System for the Commission's power system.

\$914,217,185

\$885,776,395

Table 1.-Statement of Financial Position

Assets	1985	1984
PROPERTY, PLANT AND EQUIPMENT: At cost (Note Ic)	\$896,689,808	\$888,551,801
	426,669,494	420,152,474
	470,020,314	468,399,327
CURRENT ASSETS: Cash and fund balances (Notes 4 and 5): Deposit funds and undeposited receipts: Postal fund	146,195	151 542
Trust fund	1,172,298	151,542 521,421
Cash receipts for deposit into U.S. Treasury	456,513	917,191
	1,775,006	1,590,154
Unexpended appropriated funds:	<i></i>	
Operating funds	43,357,867 24,605,692	46,185,064 28,986,025
Emergency fund	10,000,000	10,000,000
	77,963,559	85,171,089
	79,738,565	86,761,243
Accounts receivable: Regular Other (Note 7)	11,310,945 826,867 12,137,812	13,844,708 826,867 14,671,575
Inventories, less allowance for obsolete and		
excess stock of \$423,954 and \$400,000, respectively (Notes 1g and 6c)	40,695,032	40,718,200
Other current assets	400,566	262,627
	132,971,975	142,413,645
OTHER ASSETS:		
Deferred charges: Cost of early retirement benefits (Note 1h) Retirement benefits to certain former employees of predecessor agencies (Note 1h) Other	273,840,000	293,400,000
	8,740,000	9,596,000
	204,106 282,784,106	408,213 303,404,213
	282,784,100	303,404,213

TOTAL ASSETS

The accompanying notes are an integral part of this statement.

September 30, 1985 and 1984

Liabilities	1985	1984
INVESTMENT OF THE UNITED STATES GOVERNMENT		
Invested capital:		
Interest-bearing (10.720% and 10.208%, respectively) (Note 9) Non-interest-bearing.	\$76,901,053 286,084,032	\$84,014,932 277,910,116
	362,985,085	361,925,048
Current budgetary accounts (Note 4): Obligated operating fundsObligated capital fundsUnobligated capital fundsUnobligated emergency fund	43,357,867 15,232,473 9,373,219 10,000,000 77,963,559	46,185,064 19,792,831 9,193,194 10,000,000 85,171,089
	440,948,644	447,096,137
CURRENT LIABILITIES: Accounts payable: U.S. Government agencies Government of Panama Other	4,851,421 6,423,722 9,069,465	4,861,685 6,630,604 8,067,022
	20,344,608	19,559,311
Accrued liabilities: Employees' leave	40,368,754 5,391,152 19,560,000	39,643,978 4,513,849 19,560,000
Retirement benefits to certain former employees of predecessor agencies (Note 1h)	1,152,000 951,000 5,499,542 1,118,755 2,269,221 76,310,424	1,234,000 1,270,000 8,569,562 2,704,695 5,010,926
Other current liabilities: Unfunded marine accident claims (Notes 7 and 10) Advances for capital-unexpended (Notes 1d and 11) Other	23,052,507 9,614,130 1,188,069 33,854,706	82,507,010 19,782,519 14,078,394 483,062 34,343,975
	130,509,738	136,410,296
DEFERRED CREDIT: Advances for capital being amortized (Notes 1d, 6a and 11)	26,082,854	17,501,785
Long-Term Liabilities and Reserves: Cost of early retirement benefits (Note 1h) Retirement benefits to certain former employees of	254,280,000	273,840,000
predecessor agencies (Note 1h). Employees' repatriation. Lock overhauls (Note 1i). Marine accidents (Note 1j). Casualty losses (Note 1j). Floating equipment repair (Notes 1k and 6b).	7,588,000 7,386,000 2,796,648 13,053,215 745,693 2,385,603 288,235,159	8,362,000 10,728,400 5,395,232 11,771,923 611,412 2,500,000 313,208,967
Total Liabilities	\$885,776,395	\$914,217,185

The accompanying notes are an integral part of this statement.

Table 2.—Statement of Operations and Non-Interest-Bearing Investment Fiscal Years Ended September 30, 1985 and 1984

	1985	1984
OPERATING REVENUES:	\$300,807,914	£290 155 025
Tolls (Note 1b)		\$289,155,035
	300,807,914	290 155 025
Net tolls revenue	300,807,914	289,155,035
Other	111,669,114	120,114,444
Advances for capital (Note 11)	(5,753,649)	(4,853,615)
Net other revenues	105,915,465	115,260,829
Total operating revenues	406,723,379	404,415,864
OPERATING EXPENSES (Note 6d):		
Payments to the Government of Panama:		
Public services	10,000,000	10,000,000
Fixed annuity	10,000,000	10,000,000
Tonnage	52,803,013	49,143,817
	72,803,013	69,143,817
Maintenance of channels and harbors	42,384,789	39,633,790
Navigation service and control	66,755,872	71.396.827
Locks operation	42,881,108	46,516,500
General repair, engineering and maintenance	,,	
services	19,044,297	5,074,102
Supply and logistics	15,517,805	7,612,534
Utilities	34,680,996	34,538,353
Housing operations	6,893,595	6,121,134
General and administrative	65,937,035	70,460,073
Interest on interest-bearing investment (Note 9)	7,713,238	9,796,269
Other	30,992,876	37,284,966
Total operating expenses	405,604,624	397,578,365
NET OPERATING REVENUE (Notes 1b and 8)	1,118,755	6,837,499
Invested Capital.—Non-Interest-Bearing:		
Unrecovered costs (recovered) deferred		(4.133.004)
(Notes 1b and 8)	(1.110.755)	(4,132,804)
Net revenue payable to Government of Panama Investment at beginning of fiscal year	(1,118,755) 277,910,116	(2,704,695) 268,748,245
Miscellaneous receipts deposited into the U.S.	277,910,110	200,740,243
Treasury	917,191	282,793
Due U.S. Treasury for undeposited receipts	(456,513)	(917,191)
Interest on interest-bearing investment (Note 9)	7,713,238	9,796,269
INVESTED CAPITAL -NON-INTEREST-BEARING AT END OF		
FISCAL YEAR	\$286,084,032	\$277,910,116
	-300,000,,000	

The accompanying notes are an integral part of this statement.

Table 3A.-Statement of Changes in the Investment of the United States Government Fiscal Year Ended September 30, 1985

	parsarul	Invested Capital				
	Interest- Bearing	Non-Interest- Bearing	Emergenev Fund	Operating Funds	Capital Funds	Total
INVESTMENT AT OCTOBER 1, 1984	\$84,014,932	\$277,910,116	\$10,000,000	\$46,185,064 404,646,000	\$28,986,025	\$447.096,137
	84,014,932	277,910,116	10,000,000	450.831,064	54,186,025	876,942,137
Prior year receipts deposited into the U.S. Treasury Prior year receipts deposited into the U.S. Treasury Expenditures from capital appropriations. Expenditures from operating appropriations Interest on interest-bearing investment Property transferred from other U.S. Government agencies Net revenue (Note 1b)	29,580,333 383,034,130 73,414	917,191		(383,034,130)	(29,580,333)	917,191 7,713,238 7,414 1,118,755
	412,687,877	9,749,184		(383,034,130)	(29.580.333)	9,822,598
DECREASES IN INVESTMENT: Funds to be covered into the U.S. Treasury. Receipts deposited into the U.S. Treasury. Due U.S. Treasury for undeposited receipts. Property transferred to the Government of Panama. Property transferred to other U.S. Government agencies.	416,106,788 3,437,013 257,955	456.513		24,439,067		24,439,067 416,106,788 456,513 3,437,013 257,955
Net revenue payable to Government of Panama (Note 1b)		1,118,755				1,118,755
	419.801.756	1,575,268		24,439,067		445,816,091
INVESTMENT AT SEPTEMBER 30, 1985	\$76,901,053 (Note 9)	\$286,084,032	\$10,000,000	\$43,357.867	\$24,605,692	\$440,948,644

The accompanying notes are an integral part of this statement.

Table 3B.-Statement of Changes in the Investment of the United States Government Fiscal Year Ended September 30, 1984

	Invested Capital	Capital				
	Interest- Bearing	Non-Interest- Bearing	Emergency Fund	Operanng Funds	Capital Funds	Total
INVESTMENT AT OCTOBER 1, 1983	\$108,905,590	\$268,748,245	\$10,000,000	\$45,222,217	\$28,517,883	\$461,393,935 413,725,000
	108,905,590	268,748,245	10,000,000	437,134,217	50,330,883	875,118.935
INCREASES IN INVESTMENT Prior year receipts deposited into the U.S. Treasury Prior year receipts deposited into the U.S. Treasury Expenditures from capital appropriations Expenditures from operating appropriations Interest on interest-bearing investment Net revenue (Notes 1b and 8).	21.344.858	282,793 		(360.006,716)	(21,344,858)	282.793 9.796.269 2.704.695
	381,351,574	12.783.757		(360,006,716)	(21,344,858)	12,783,757
DECREASES IN INVESTMENT Funds to be covered into the U.S. Treasury Receipts deposited into the U.S. Treasury Due U.S. Treasury for undeposited receipts Property transferred to the Government of Panama Property transferred to other U.S. Government agencies	405,954,027 116,358 171,847	917,191		30.942.437		30.942.437 405.954.027 917.191 116.358 171.847
Net revenue payable to Government of Fanama (Notes 1b and 8)		2,704,695				2,704,695
	406,242,232	3,621,886		30.942,437		440,806,555
INVESTMENT AT SEPTEMBER 30, 1984	\$84,014,932 (Note 9)	\$277,910,116	\$10,000,000	\$46,185,064	\$28,986.025	\$447,096,137

The accompanying notes are an integral part of this statement.

Table 4.-Statement of Changes in Financial Position

Source of Funds:	1985	1984
From Operations: Revenue	\$406,723,379	\$404,415,864
Less operating expenses:		2 724 242
Interest on interest-bearing investment	7,713,238	9,796,269
Payments to the Government of Panama	72,803,013	69,143,817
Other expenses	325,088,373	318,638,279
Total operating expenses	405,604,624	397,578,365
Net operating revenue (Notes 1b and 8) Unrecovered costs for fiscal year 1983	1,118,755	6,837,499
(recovered) deferred (Notes Ib and 8) Net revenue payable to Government of Panama		(4,132,804)
(Notes 1b and 8)	(1,118,755)	(2,704,695)
Add transactions not requiring outlay of funds:	10 415 273	10.597.530
Depreciation (Note 1e)	18,415,373	19,586,529
Provision for lock overhauls (Note 11)	3,741,000	5,071,000
Provision for casualty losses (Note 1j) Provision for floating equipment repair	5,200,000	7,400,000
(Notes 1k and 6b)	2,500,000	2,500,000
Other	4,482,630	5,665,966
Other	34,339,003	40,223,495
Change in investment of the U.S. Government:		
Interest on interest-bearing investment	7,713,238	9,796,269
Receipts deposited into U.S. Treasury	(416, 106, 788)	(405,954,027)
Disbursements from appropriated funds	412,614,464	381,351,575
Net property transfers	(3,621,554)	(288,206)
Other	460,677	(634,399)
Other	1,060,037	(15,728,788)
Amortization of advances for capital	1,636,845	941,478
Advances for capital being amortized (Notes 1d,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
6a and 11)	8,581,069	3,064,777
	45,616,954	28,500,962
Total source of funds	45,010,754	
Application of Funds:		
Lock overhauls expenditures	6,339,585	7,283,342
Casualty losses expenditures	3,784,427	7,842,622
Accrued capital expenditures	29,212,127	22,456,349
Floating equipment repair expenditures	2,614,397	
Total application of funds	41,950,536	37,582,313
Increase (Decrease) in Working Capital	\$3,666,418	\$ (9,081,351)
TYCREASE (DECREASE) IN WORKING CHITTIE		
Analysis of Changes in Working Capital		
Increase (decrease) in current assets:	C104 052	\$15.042
Cash	\$184,853	\$15,843
Receivables	(2,533,763)	2,801,163
Inventories	(23,168)	(1,292,084)
Other	137,938	(91,755)
	(2,234,140)	1,433,167
Decrease (increase) in current liabilities:	(705 307)	(4,730,783)
Accounts payable	(785,297)	(3,674,921)
Accrued liabilities	6,196,586	
Other current liabilities	489,269	(2,108,814)
	5,900,558	(10,514,518)
INCREASE (DECREASE) IN WORKING CAPITAL	\$3,666,418	\$ (9,081,351)

The accompanying notes are an integral part of this statement.



Table 5.-Statement of Status of Appropriations

0	1985	1984
Source of Appropriations: Operating funds: Current year operating appropriation	\$404,646,000	\$391,912,000
Obligated operating funds brought forward: Fiscal year 1980	6,412,176 3,887,554 34,192,800 46,185,064 450,831,064	2,543,398 3,424,423 4,717,168 34,537,228 45,222,217 437,134,217
Capital funds: Current year capital appropriation (no year)	25,200,000	21,813,000
Obligated capital funds brought forward: Fiscal year 1980	159,270 	273,632 17,758,053
Unobligated capital funds (no year) brought forward: Fiscal year 1980	87,103 9,106,091 9,193,194 54,186,025	201,847 10,284,351 10,486,198 50,330,883
Emergency fund (no year)	10,000,000	10,000,000
TOTAL SOURCE OF APPROPRIATIONS	\$515,017,089	\$497,465,100

The accompanying notes are an integral part of this statement.

Fiscal Years Ended September 30, 1985 and 1984

	1985	1984
APPLICATION OF APPROPRIATIONS:		
Operating funds: Expenditures from operating appropriations: Fiscal year 1980	\$909,463	\$886,097 1,167,815 2,326,651
Fiscal years—Merged Fiscal year 1983 Fiscal year 1984 Fiscal year 1985	4,054,389 1,642,554 29,914,041 346,513,683	29,591,407 326,034,746
	383,034,130	360,006,716
Obligated operating funds: Fiscal year 1980 Fiscal year 1981 Fiscal year 1982 Fiscal years—Merged Fiscal year 1983 Fiscal year 1984 Fiscal year 1985	713,275 	1,692,534 3,558,134 2,854,042 3,887,554 34,192,800
	43,357,867	46,185,064
Unobligated operating funds lapsed	24,439,067	30,942,437
Capital funds: Expenditures from capital appropriations: Fiscal year 1980	68,453 	229,106 21,115,752 21,344,858
Obligated capital funds: Fiscal year 1980Fiscal years 1981 through 1984Fiscal years 1981 through 1985	124,574 15,107,899 15,232,473	159,269 19,633,562 19,792,831
Unobligated capital funds (no year): Fiscal year 1980 Fiscal years 1981 through 1984 Fiscal years 1981 through 1985	53,346 9,319,873 9,373,219	87,103 9,106,091 9,193,194
	54,186,025	50,330,883
Unobligated emergency fund (no year)	10,000,000	10,000,000
TOTAL APPLICATION OF APPROPRIATIONS	\$515,017,089	\$497,465,100

The accompanying notes are an integral part of this statement.

Table 6.—Statement of Property, Plant and Equipment September 30, 1985 and 1984

		1985	55	1984	
	Extimated service	Cost	Depreciation and valuation allowances	Con	Depreciation and valuation
	A) vears	£14 728 889	\$4 \$10 723	\$14 728 889	\$4 142 501
Fitles and treaty rights	40 years	110 000 03	11,000,03	50 500 311	100,000
Interest during construction		30,892,311	116,246,06	115,240,05	30,692,311
Canal excavation fills and embankments	15-100 years	347,536,452	106,030,626	347,536,452	97.504.007
Canal structures and equipment	4-100 years	240,486,121	115,524,805	227,921,383	111,597,988
Supporting and general facilities	5-100 years	154,169,752	96.534,802	163,216,450	102,770,199
Minor items of plant and equipment		10,569,651	10,569,650	10,339,272	10,339,272
Facilities held for future use	15-100 years	2,858,777	2,450,779	2,915,933	2,760,398
		35,302,057		30,855,313	:
Suspended construction projects		40,145,798	40,145,798	40,145,798	40,145,798
TOTAL		\$896,689,808	\$426,669,494	\$888,551,801	\$420,152,474

The accompanying notes are an integral part of this statement.

NOTES TO FINANCIAL STATEMENTS

1. Summary of Significant Accounting Policies.

The Comptroller General of the United States approved the Accounting Principles and Standards Statement of the Panama Canal Commission in his letter dated September 14, 1982. A summary of significant accounting policies follows:

- a. Accounting and reporting. As required by section 1311(a) of the Panama Canal Act of 1979, hereinafter referred to as the Act, the accounts of the Commission are maintained pursuant to the Accounting and Auditing Act of 1950. This requires that the principles, standards and related requirements be met, as prescribed by the Comptroller General of the United States, after consulting with the Secretary of the Treasury and the Director of the Office of Management and Budget concerning their accounting, financial reporting and budgetary needs. The Accounting and Auditing Act of 1950 also requires that the accounts be maintained on an accrual basis.
- b. Cost recovery. As required by section 1341(e)(1) of the Act, the application of generally accepted accounting principles to the Panama Canal Commission, a United States Government agency comparable to a rate-regulated public utility, determines the manner in which costs are recognized. The basis for tolls rates is prescribed in section 1602(b) of the Act. This section of the Act, known as the "statutory tolls formula," provides that:

"Tolls shall be prescribed at rates calculated to produce revenues to cover as nearly as practicable all costs of maintaining and operating the Panama Canal, together with the facilities and appurtenances related thereto, including unrecovered costs incurred on or after the effective date of this Act, interest, depreciation, payments to the Republic of Panama pursuant to paragraph 5 of Article III and paragraph 4(a) and (b) of Article XIII of the Panama Canal Treaty of 1977, and capital for plant replacement, expansion, and improvements. Tolls shall not be prescribed at rates calculated to produce revenues sufficient to cover payments to the Republic of Panama pursuant to paragraph 4(c) of Article XIII of the Panama Canal Treaty of 1977."

Under this statutory tolls formula, any unrecovered costs are to be recovered from subsequent revenues. The amount for recovery from subsequent revenues is transferred from Invested Capital to an account within the Other Assets classification. Unrecovered costs are charged back to Invested Capital to the extent subsequent annual revenues exceed annual costs.

c. Property, plant and equipment. Property, plant and equipment are recorded at cost, or if acquired from another United States Government

agency, at the value determined by the Director of the Office of Management and Budget. Administrative and other related general expenses are recovered currently and therefore not capitalized. The cost of minor items of property, plant and equipment is charged to expense as incurred.

- d. Advances for capital. A portion of tolls in excess of depreciation recoveries may be programmed annually by the Board of Directors for plant replacement, expansion, or improvements. Such funds are considered capital advances from Canal users. Upon utilization, these advances are amortized through an offset to depreciation expense in an amount calculated to approximate the depreciation on assets acquired with such advances.
- e. Depreciation. Property, plant and equipment are depreciated over their estimated service lives at rates computed using a straight-line method with additional annual depreciation, identified as composite, to provide for premature plant retirements.

The recurring costs of dredging the waterway are charged to expense. Non-recurring dredging costs for substantial improvements and betterments to the waterway are considered additions to plant and are capitalized and depreciated over their estimated service lives.

- f. Accounts receivable. Uncollectible accounts receivable of the Panama Canal Commission are recognized as a reduction in revenue when written off. Any subsequent collections of Commission accounts receivable previously written off are recorded as revenue.
- g. Inventories. Operating materials and supplies are stated at average cost, plus cost of transportation to the ultimate destination on the Isthmus of Panama. An allowance has been established to reflect the estimated cost of obsolete and excess stock.
- h. Retirement benefits. Employer payments to the contributory United States Civil Service Retirement System and to the Republic of Panama Social Security System are charged to expense. The Commission has no liability for future payments to employees under these systems.

Non-United States citizen employees who retired from predecessor agencies prior to October 5, 1958, are not covered by the United States Civil Service Retirement System but do receive benefits under a separate annuity plan. Payments made under this annuity plan are recorded as a current year expense. The liability of the Commission for future annuity payments to these former employees or their eligible widows is reflected in the balance sheet as Retirement benefits to certain former employees of predecessor agencies and an equal amount is recorded as a Deferred charge.

As required by the Act, the Panama Canal Commission is liable for the increase in the unfunded liability of the United States Civil Service Retirement Fund which is attributable to benefits payable from that fund to, or on behalf of, employees and their survivors under the early retirement provisions of the Act. The annual installment to liquidate the increased liability is determined by the Office of Personnel Management.

- i. Reserve for lock overhauls. A reserve is provided through an annual charge to expense to cover the estimated cost of periodic lock overhauls.
- j. Reserve for casualty losses. A reserve is provided through an annual charge to expense to cover the estimated cost of marine accidents and other casualty losses.
- k. Reserve for floating equipment repair. A reserve is provided through an annual charge to expense to cover the estimated cost of repairs to major floating equipment.
- 1. Housing use rights. No monetary value is assigned to the rights granted to the United States Government by the Republic of Panama to use Canal Area housing transferred to the Republic of Panama under the terms of the Panama Canal Treaty of 1977. The cost to manage, maintain and provide livability improvements to these quarters is charged to expense. Rental income is included in other revenues.

2. Plant Valuation Allowances.

At July 1, 1951, certain valuation allowances for property, plant and equipment transferred from the Panama Canal (agency) to the Panama Canal Company and the Canal Zone Government were established, to reduce to usable value the costs of the assets transferred. At October 1, 1979, such valuation allowances as were applicable to the assets transferred from the Panama Canal Company and the Canal Zone Government to the Panama Canal Commission were carried forward and are comprised of: (a) \$4.8 million at September 30, 1985, and \$5.5 million at September 30, 1984, to reduce to usable value the cost of property, plant and equipment transferred; (b) \$50.9 million at September 30, 1985, and 1985, and 1984, to offset interest costs imputed for the original Canal construction period; and (c) \$42.5 million at September 30, 1985, and \$42.8 million at September 30, 1984, to offset the cost of defense facilities and suspended construction projects, the latter being principally the partial construction of a third set of locks abandoned in the early part of World War II.

Property, plant and equipment offset by valuation allowances, when fully or partially reactivated, are reinstated by a reduction in the valuation allowance and by an increase to the non-interest-bearing investment of the United States Government in proportion to the value to the Commission of the reactivated asset.

3. Depreciation as a Percentage of Average Cost of Plant.

The provision for depreciation, expressed as a percentage of average cost of depreciable plant exclusive of valuation allowances, was 2.53% for fiscal year 1985 and 2.63% for fiscal year 1984.

4. Cash and Fund Balances.

As of September 30, 1985, the cash and fund balances of \$79,738,565 are made up of \$74,572,119 on deposit in the United States Treasury, \$1,509,718 on deposit in commercial banks, and \$3,656,728 on hand. Of the total, \$77,963,559 is comprised of current budgetary accounts which include appropriated funds for operations, capital and the emergency fund.

As of September 30, 1984, the cash and fund balances of \$86,761,243 were made up of \$83,845,968 on deposit in the United States Treasury, \$1,209,019 on deposit in commercial banks, and \$1,706,256 on hand. Of the total, \$85,171,089 was comprised of current budgetary accounts which included appropriated funds for operations, capital and the emergency fund.

The emergency fund represents the amount on deposit in the United States Treasury which is to be used "... to defray emergency expenditures and to insure the continuous efficient and safe operation of the Panama Canal when funds appropriated for the operation and maintenance of the Canal prove insufficient for such purposes"

The postal fund consists of outstanding money orders, postal savings and interest accrued thereon. This fund will remain available until liquidated. The trust fund primarily includes deposits made by customers for future tolls and other service payments.

5. Panama Canal Commission Fund.

The Panama Canal Commission Fund as established by the Panama Canal Act of 1979 (Public Law No. 96-70) is made up of receipts deposited in the United States Treasury less appropriation warrants issued during the fiscal year. The balance in this account, \$180.8 million as of September 30, 1985, and \$171.2 million as of September 30, 1984, is available for future appropriations.

Section 1302 of the Panama Canal Act of 1979 (Public Law No. 96-70) provides that all appropriations necessary to operate the Panama Canal shall be issued from the Panama Canal Commission Fund. The appropriations for fiscal year 1980 were issued to the Commission from the General Fund of the United States Treasury. The status of the amount still owed to the General Fund of the United States Treasury for fiscal year 1980 is as follows:

	Millions o	f Dollars
Operating Appropriation	\$427.2 36.6	\$463.8
Repaid to General Fund (07/81)	(350.0) (28.2)	(378.2)
Amount owed General Fund of U.S. Treasury as of September 30, 1985		\$ 85.6

6. Accounting Changes.

- a. In fiscal year 1984 a new method was adopted for amortizing advances for capital disbursements based on the flow of costs from construction work in progress. Disbursements are amortized in proportion to depreciation costs arising from completed projects transferred from construction work in progress.
- b. During fiscal year 1984, a reserve was established for floating equipment repairs similar to the reserves now in existence for lock overhauls and marine accidents. A one-time charge to expense of \$2.5

million was made to establish the reserve. The annual accrual will be reviewed and adjusted as appropriate.

- c. Effective with fiscal year 1984, there was a change in the method of applying the accounting policy for certain inventories. Inventories of manufactured materials and supplies and water system chemicals valued at \$1.3 million were written off by a charge to operations in fiscal year 1984.
- d. During fiscal year 1985, the Commission virtually eliminated transfers of costs from performers of services to requesters of these services to simplify and streamline accounting for costs. Additionally, in fiscal year 1985, the operating expenses for storehouse, transportation, sanitation and grounds management services and the employee fitness program were reclassified in order to reflect more closely the Commission's functional alignment of costs. For comparability, fiscal year 1984 expenses were recast to reflect the same cost alignment as fiscal year 1985. In this connection, storehouse expenses of \$6,543,628 and transportation expenses of \$1,068,906 were combined and restated under supply and logistics. Sanitation and grounds maintenance services expenses of \$1.078.835 were combined with general repair, engineering and maintenance services, and expenses for the employee fitness program of \$888,251 were combined with other. These expenses were originally classified in fiscal year 1984 as follows: storehouse expenses were included in general repair, engineering and maintenance services; transportation expenses with utilities; sanitation and ground maintenance services with other; and employee fitness program costs with housing operations.

7. Other Receivables.

Other receivables represent services provided in connection with marine accidents for which the vessel is considered to be responsible awaiting final settlement. This amount is also included in the computation of estimated liabilities established for marine accident claims.

8. Unrecovered Costs Due from Subsequent Revenues.

Pursuant to the provisions of section 1341(e) and section 1602(b) of the Panama Canal Act of 1979 (Public Law No. 96-70) the net loss of \$4.1 million from fiscal year 1983 operations was recovered from fiscal year 1984 operating revenue.

9. Interest-Bearing Investment of the United States Government.

The interest-bearing investment of the United States Government in the Panama Canal is determined based on section 1603(a) of the Panama Canal Act of 1979. The interest-bearing investment of the United States Government at September 30, 1985, and September 30, 1984, was determined as follows:

	Millions of	Dollars
Investment at September 30, 1983		\$108.9
Disbursements	\$381.4	
Receipts	(406.0)	
Net property transfers	(0.3)	
Net change		(24.9)
Investment at September 30, 1984		84.0
Disbursements	412.6	
Receipts	(416.1)	
Net property transfers	(3.6)	
Net change		(7.1)
Investment at September 30, 1985		\$76.9

10. Marine Accident Claims.

Liabilities arising from marine accident claims are divided into fund and non-fund categories. The fund category is made up of the following:

- a. Accidents which occurred prior to October 1, 1979.
- b. Accidents which occurred within the locks after September 30, 1979.
- c. Accidents which occurred outside the locks after September 30, 1979, for which the claim or estimated liability is \$120,000 or less per ship per accident.

Settlement of liabilities for marine accidents which occurred outside the locks where the claim exceeds \$120,000 requires specific Congressional approval. Until Congressional action is completed, liabilities for these accidents are booked as non-fund. Public Law 99-209, dated December 23, 1985, granted authority to the Commission to adjust and pay these claims. At September 30, 1985, such claims which have accrued since October 1, 1979, totaled \$23.1 million. The authority under Public Law 99-209 is retroactive to October 1, 1979; however, any payments will require appropriations action by the Congress.

11. Advances for Capital-Transit Booking System Fees.

During fiscal year 1982, with approval of the Board of Directors, the Commission tested a system whereby shippers, for a fee, could make an advance reservation for vessel transit. The system was activated in fiscal year 1983 and generated funds of \$5.8 million in fiscal year 1985 and \$4.9 million in fiscal year 1984. Such funds are considered capital advances from Canal users. By direction of the Board of Directors, these fees are set aside for capital improvements.

12. Contingent Liabilities and Commitments.

In addition to recorded liabilities, the estimated maximum contingent liability which could result from pending claims and lawsuits was \$3.4 million at September 30, 1985, and September 30, 1984. In the opinion of management and Commission counsel, these pending claims and lawsuits will be resolved with no material adverse effect on the financial condition of the agency.

Commitments under uncompleted construction contracts and unfilled purchase orders amounted to \$25.9 million at September 30, 1985, and

\$29.7 million at September 30, 1984. Of these amounts \$0.2 million in unfilled purchase orders were prepaid as of September 30, 1985, and \$0.1 million at September 30, 1984. In addition, the Panama Canal Commission is liable for an indeterminable amount with respect to death and disability payments under the Federal Employees' Compensation Act.

Cash and negotiable securities of a kind acceptable by the United States Government in the amount of \$7.3 million were held by United States depositories designated by the Panama Canal Commission at September 30, 1985, and \$6.3 million at September 30, 1984, to guarantee payment by third parties of their obligations.

The Panama Canal Treaty of 1977, Article XIII, paragraph 4(c), provides that an annual amount of up to \$10 million per year be paid to the Government of Panama out of operating revenues to the extent that such revenues exceed expenditures. Payment to the Government of Panama is subject to the limitations set forth in section 1341(e) of the Panama Canal Act of 1979 (Public Law No. 96-70). In the event operating revenues in any year do not produce a surplus sufficient to cover this payment, the unpaid balance shall be paid from operating surpluses in future years up to the amount available from these surpluses. As of September 30, 1985, the balance contingently payable to the Government of Panama amounts to \$53.1 million. As of September 30, 1984, the balance contingently payable to the Government of Panama amounted to \$44.2 million.

13. Treaty Impact.

On September 7, 1977, the United States of America and the Republic of Panama signed the Panama Canal Treaty of 1977. The Treaty provided for the establishment of the Panama Canal Commission on October 1, 1979, to assume certain operational responsibilities for the Canal until December 31, 1999. When the Treaty terminates on December 31, 1999, the Republic of Panama shall assume total responsibility for the management, operation, and maintenance of the Panama Canal, which shall be turned over in operating condition and free of liens and debts, except as the two Parties may otherwise agree. The effects of these long-range requirements are not considered in the financial statements.



Chapter VI

STATISTICAL TABLES

Shipping Statistics

Table 1.—Panama Canal Traffic—Fiscal Years 1976 Through 1985

		Total traffic	c		nssessed tolls onnage basis	on disp	sessed tolls lacement ge hasis
	Number		Long tons	Number	Panama	Number	Displace-
Fiscal	of	T-11-	of	of	Canal nei	of	ment
year	transits	Tolls	cargo	transits	tonnage	transits	tonnage
	Oc	EANGOING C	OMMERCIAL	TRAFFIC	1		
1976	12,157	\$134,204,402	117,212,266	12,123	127,778,919	34	131,258
*TQ	3,037	35,272,300	30,888,300	3,031	33,686,757	6	23,205
1977	11,896	163,826,571	122,978,785	11,868	133,353,132	28	108,642
1978	12,677	194,773,111	142,518,288	12,647	156,907,260	30	109,798
1979	12,935	208,376,741	154,110,866	12,902	167,470,601	33	136,600
1980	13,507	291,838,590	167,214,935	13,476	182,063,175	31	137,593
1981	13,884	301,762,600	171,221,762	13,847	188,656,491	37	111,418
1982	14,009	323,958,366	185,452,332	13,976	202,884,207	33	129,684
1983	11,707	285,983,805	145,590,759	11,668	169,503,918	39	132,431
1984	11,230	286,677,844	140,470,818	11,199	162,335,342	31	116,335
1985	11,515	298,497,802	138,643,243	11,498	168,940,927	17	86,623
		NGOING U.S.		NT TRAF			
1976	85	\$727,983	177,508	68	641,137	17	87,728
*TQ	18	166,779	55,383	13	118,300	5	65,025
1977	88	805,983	212,677	59	577,483	29	165,148
1978	103	889,093	291,115	70	589,085	33	214,145
1979	111	1,054,169	357,482	80	726,755	31	207,640
1980	101	1,515,326	396,481	73	844,748	28	217,055
1981	89	1,241,442	301,776	68	705,936	21	143,121
1982	110	1,546,746	285,451	67	794,282	43	309,206
1983	125	1,721,925	354,873	77	812,840	48	350,699
1984	137	2,388,272	329,607	88	1,131,865	49	410,682
1985	129	2,223,938	259,524	85	1,148,311	44	248,967
		FREE OCEAN	ngoing Tra	FFIC 1 2			
1976	38		5,635	17	22,854	21	41,655
*TQ	4		200	3 8	1,474	1 5	1,800
1977	13 5		380	4	21,252 3,789	j	10,380
1978	10		· · · · · · · · · i	8	4,527	2	2,194
1980	6			3	1,686	3	4.810
1981	11			4	2,248	7	8,544
1982	23			9	5.010	14	21.903
1983	14		2,504	ģ	9,119	• 5	5,986
1984	17		2,504	4	2.224	13	21.025
1985	io		20	4	2,731	6	8,771
		TOTAL OCE	ANGOING TR	RAFFIC !			
1976	12,280	\$134,932,385	117,395,409	12.208	128,442,910	72	260.641
*TO	3.059	35,439,079	30,943,683	3,047	33,806,531	12	90,030
1977	11.997	164,632,554	123,191,842	11,935	133,951,867	62	284,170
1978	12,785	195,662,204	142,809,403	12,721	157,500,134	64	325,043
1979	13,056	209,430,910	154,468,349	12,990	168,201,883	66	346,434
1980	13,614	293,353,916	167,611,416	13,552	182,909,609	62	359,458
1981	13.984	303,004,042	171,523,538	13,919	189,364,675	65	263,083
1982	14,142	325,505,112	185,737,783	14,052	203,683,499	90	460,793
1983	11,846	287,705,730	145,948,136	11,754	170,325,877	92	489,116
1984	11,384	289,066,116	140,800,425	11,291	163,469,431	93	548,042
1985	11,654	300,721,740	138,902,787	11,587	170,091,969	67	344,361

Table 1.—Panama Canal Traffic—Fiscal Years 1976 Through 1985 (Continued)

		Total traffic			ssessed tolls onnage basis	on disp	sessed tolls lacement ge basis
Fiscal	Number of		Long tons of	Number of	Panama Canal net	Number of	Displace- ment
vear	transits	Tolls	cargo	transits	tonnage	transits	tonnage
		SMALL COMM	MERCIAL TR	AFFIC 3			
1976	745	\$49,314	6,866	737	50,281	8	1,229
*TO	204	24,785	1,236	204	15,389		
1977	759	39,960	2,820	751	48,717	8	1,108
1978	792	63,526	6,962	785	57,827	7	1,040
1979	936	76,591	7,718	934	69,229	2	94
1980	788	74,898	787	787	52,052	1	57.
1981	791	65,604	1,355	788	44,962	3	279
1982	830	73,228	928	826	50,399	4	315
1983	810	73,887	669	810	48,033		145
1984	802	76,921	652	800	48,008	1	110
1985	793	73,710	468	792	45,694	1	110
	SM	IALL U.S. GO	OVERNMENT	Traffic	3		
1976	136	\$6,168		18	1,159	118	8,019
*TQ	36	1,613	23	4	481	32	2,144
1977	277	12,851		22	953	255	16,769
1978	187	9,504	8	25	1,446	162	10,742
1979	315	14,375	9	48	2,865	267	15,519
1980	276	15.129		29	1,357	247	14,313
1981	225	10,712	2	16	751	209	10,431
1982	241	10,757		12	415	229	10,973
1983	242	11,406	5	12	332	230	11,177
1984	241	11,998		8	336	233	11,282
1985	273	12,464		15	773	258	11,113
		SMALL F	REE TRAFFI	C 2 3			
1976	40		50	31	1,484	9	701
*TO	14			14	944		
1977	54		10	50	2,840	4	466
1978	44		20	42	2,986	2	72
1979	55		3	47	2,160	8	632
1980	47			41	2,317	6	560
1981	50			41	2,613	9	1,012
1982	58		70	40	2,803	18	1,172
1983	56		8	39	2,321	17	2,010
1984	96		59	86	4,637	10	1,360
1985	46		3	32	1,721	14	1,103
		TOTAL PANA	MA CANAL	Traffic			
1976	13,201	\$134,987,867	117,402,325	12,994	128,495,834	207	270,590
*TO	3,313	35,465,477	30,944,942	3,269	33,823,345		92,174
1977	13.087	164,685,365	123,194,672	12,758	134,004,377	329	302,513
1978	13,808	195,735,234	142,816,393	13,573	157,562,393	235	336,897
1979	14,362	209,521,876	154,476,079	14,019	168,276,137	343	362,679
1980	14,725	293,443,943	167,612,203	14,409	182,965,335		374,388
1981	15,050	303,080,358	171,524,895	14,764	189,413,001	286	274,805
1982	15,271	325,589,097	185,738,781	14,930	203,737,116		473,253
1983	12,954	287,791,023	145,948,818	12,615	170,376,563		502,303
1984	12,523	289,155,035	140,801,136	12,185	163,522,412		560,829
1985	12,766	300,807,914	138,903,258	12,426	170,140,157	340	356,687

Oceangoing traffic includes ships of 300 net tons and over, Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on displacement basis (dredges, warships, etc.).

² Free traffic includes ships of the Colombian and Panamanian Governments and ships transiting for repair by the Commission.

³ Includes vessels under 300 net tons, Panama Canal measurement (or under 500 displacement tons for vessels assessed on displacement tonnage).

[•] Effective 10-1-76 the fiscal year for all U.S. Government agencies was changed from July 1 through June 30, to October 1 through September 30. For continuity purposes, July, August, and September 1976 were designated the Transition Quarter.

Table 2.—Oceangoing Commercial Traffic by Months—Fiscal Years 1985 and 1984

	Number o	umber of Transus	Panama Canal Net Tonnage	Net Tonnage	Long Tons of Cargo	of Cargo	Tolls	IIs
	1984-85 1983-84	1983-84	1984-85	1983-84	1984-85	1983-84	1984-85	1983-84
October	896	106	14,116,692	12,851,296	12,071,648	10.983,458	\$ 25.040,510	\$ 22.706.763
November	945	871	13,641,613	12,842,014	11,503,330	10,938,373	24,142,697	22,570,931
December	939	915	14,017,821	13,066,789	11,758,781	10,737,399	24,888,529	22,960,793
January	929	913	13,868,162	13,552,761	11,202,166	11,402,597	24,392,475	23,970,069
February	881	868	13.093,376	12,854,233	10,818,565	11,084,966	23,231,308	22,680,013
March	1,009	984	14,113,353	13,705,979	11,637,624	11,599,809	24,913,356	24,204,031
April	971	963	13,867,114	13,295,263	11,566,582	11,342,269	24,556,398	23,497,029
May	1,032	966	15,017,869	14,377,680	11,586,452	12,354,653	26,471,059	25,377,511
June	971	950	13,946 877	14,056,164	11,029,923	12,139,019	24.651,356	24,830,193
July	995	934	14,989,105	13,488,423	12,360,590	12,297,190	26,362,702	23,995,141
August	947	066	14,415,454	14,642,847	11,524,275	12,991,960	25,364 335	25,808,306
September	928	915	13,853,491	13,601,893	11,684,522	12,497,910	24,483,076	24,077,064
Total	11,515	11,230	168,940,927	162,335,342	138,643,243	140,470,818	\$298,497,802	\$286,677,844
Average per month	096	936	14,078,411	13,527,945	11,553,604	11,705,902	\$24,874,817	\$23,889,820

NOTE: The above includes only commercial vessels of 300 net tons and over. Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on a displacement tonnage basis. Statistics on these vessels, except as relates to displacement tonnage, have been included in the table above.

Table 3.—Canal Traffic 1 by Flag of Vessel—Fiscal Year 1985

Measured tonnage Panama Num-Long her of Canal Registered tons of Flag transits net gross 2 Tolls cargo 18,385 \$ 22,690 Argentina Australia Austria 16,504 18,634 30,202 1,419 53,396 78 031 100.052 142 707 125.046 68 331 81 222 82 811 Austria Bahamas Belgium Bermuda Brazil Bulgaria 710.832 836 047 1.265.472 539.149 130 2.793.797 1.546.018 1 666 681 1,138,817 85,921 631,734 13 122,750 151,009 209,697 531 077 29 664 827 969 771 66.021 102.085 55 784 32 367 Bulgaria
Canada
Cayman Islands
Chile
Colombia
Costa Rica 41.551 56,510 75,371 68,352 123 387 76.261 218.480 49.620 1.494,733 82 838 671 048 618 749,824 158 2.077.909 2 186 917 3.763.531 1 419 456 5.682 5.952 10.398 2 8 2 9 Cuba 140 760,131 893,139 Cyprus
Czechosłovakia
Denmark
East Germany 124 1,151,042 1,246,235 2,051,508 1,127,480 8 811 10.416 16,124 13.892 4.904,964 240 6.101.056 8 812 431 3 156 542 168,552 195,864 296,700 39 644 East Germany
Ecuador
Egypt
Faroes
Finland
France 500 4,263,189 4,914,573 7.367.564 2,675,272 37 524 45 230 68,669 72,780 1.500 3 818 6 987 1 488 186,954 229,423 327 208 159,802 747,794 885,850 66 1.995.218 29,903 39,012 54,722 30.718 Greece Honduras Hong Kong 11,380,341 20,073,080 748 13,009,185 13.951,540 102,859 523,250 83 279 140,690 23.886 450.502 818 207 553 883 Iceland..... 4.092 4.808 7,488 5.413 482,776 577,010 23 869,134 678,919 29,544 1,866,480 49,723 24,400 70 1413 888 2 587 415 946,443 Israel Italy Japan Jordan Kuwait Liberia 76 1.008.497 1.261.444 1.833.490 727.190 22,852,603 39,279,434 10,080,593 20,478 25,948 75.934 95.274 138 959 73 226 25,360,337 1 302 25,320,131 44,621,901 727,066 24 082 801 Malaysia Malta 397,304 470,128 652 072 17 243,163 167,064 302,505 184,271 Mauritania Mexico Morocco 580 350 847 3.297,492 1,983,978 110 2.442.822 1.411.365 59,105 2,229,155 70.996 107 033 93 510 Netherlands New Zealand 2,444,214 3,959,891 1.536.004 53,267 45,499 83,263 25,444 Nicaragua Norway Panama People's Republic of China 11 24,753 20.021 41,661 9.331 5.516,206 5,961,386 26,732,609 305 9 779 604 4.994.595 1,971 26,754,689 47 084 630 23.131.882 qq 1,839,808 2,070,176 3.364.935 2.005.746 Peru Philippines Poland Portugal 166 1,561,955 1,874,767 2,800,169 1,672,145 5,382,559 107 3 011 227 3,024,781 81 614.987 566 011 1.027.574 300,908 1.127 1 729 591 5.275 Rumania St. Vincent 10,303 18.854 34,210 55,161 39.814 62,604 St. vincent
Samoa
Saudi Arabia
Singapore
Somali Republic
South Korea
Spain
Sri Lanka 2 18,398 21,100 33,668 12,682 52,035 43 756 92,773 29.239 3,959,437 3.800.821 7.034.180 3.568,606 27,945 31,629 51,139 21,266 4,480,586 154 2,465,355 2,873,155 3.420.139 122 655,448 668 218 1,193,787 499,897 18 226 348 281 040 404 060 169 038 Sri Lanka Sweden Switzerland. Taiwan Thailand Turkey. United Arab Emirates 109 2,693,815 2.160,673 4.870.481 1.077.479 747,970 892,692 1,365,466 424,154 4,099,840 5,003,859 7,450,775 3,216,562 9 536 12 649 17,451 1,771 7.774 9.222 12 788 6,435 59,374 68,480 97,670 51.145 United Kingdom
United States
Uruguay
U.S.S.R. 8,931,608 16,052,118 503 10,620,238 8.770.978 802 9,429,079 10,234,551 16,558,789 6,733,044 27, 376 30 331 47.148 32,027 5,085,512 4,660,894 8.196,388 2,735,703 Vanuatu 442 299 809 75 110 275,882 357,667 512,715 222,880 7.906 9,123 14,468 8,414 2,411,218 3,301,832 3.885.973 285 5,973,763 1,947,277 Yugoslavia 1,093,080 1.301.820 1,059,143 Total 11.515 168,940,927 175,967,516 \$298.497.802 138,643,243

Includes only commercial vessels of 300 net tons and over, Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on displacement basis (dredges, warships, etc.).

² Includes 8 transits where no registered tonnage was reported.

Table 3.—Canal Traffic by Flag of Vessel—Fiscal Year 1985—Continued

NOTE.—In Canal traffic statistics, foreign naval vessels such as transports, supply ships, tankers, etc., with a measurement of 300 net tons (Panama Canal measurement) and over, and vessels of war, dredges, etc., with a displacement of 500 tons and over, are classified as oceangoing commercial vessels. Statistics on these vessels, except as related to displacement tonnage, have been included in the table above. As displacement tonnage cannot be combined with net tonnage, the following table shows statistics covering 17 vessels which transited the Canal during fiscal year 1985 and paid tolls on displacement tonnage.

		Num- ber of	Displace- ment	
Flag	Trpe	transits	tonnage	Tolls
Chile	Naval	1	1,515	\$1,545
Ecuador	Naval	1	1,000	1,020
France	Naval	4	24,494	24,984
Mexico	Naval	1	1,733	1,768
People's Republic of China	Dredge	1	17,530	17,881
Peru	Naval	1	11,564	11,795
Spain	Naval	l	3,750	3,825
United Kingdom	Naval	2	6,100	6,222
United States	Dredge	1	3,650	3,723
Venezuela	Naval	4	15,287	15,593
Total		17	86,623	\$88,355

Statistics compiled by Office of Executive Planning.



Table 4.—Classification of Canal Traffic1 by Type of Vessel—Fiscal Year 1985

		raden			Ballasi		
Type of Vessel	Atlantic to Atlantic	Pacific 10 Pacific	Total	Atlantic 10 Atlantic	Pactfic 10 Pacific	Total	Grand Total
CARGO AND CARGO PASSENGER SHIPS: Bulk Carriers:							
Number of transits	1,557	1.623	3,180	428	113	541	3,721
Fanama Canal net tonnage (thousands)	\$1,906	\$2,938 \$60,313	04,864 \$118,710	\$19,257	1,595 \$2,329	14,785 \$21.585	79.649 \$140.295
Cargo (thousands of long tons)	45.220	29,508	74.728				74,728
Number of transits	759	998	1,625	13	13	26	1.651
Panama Canal net tomnage (thousands)	13,869	17,848	31,717	147	107	254	31.972
Cargo (thousands of long tons)	8,733	11,214	19,947			1/50	19,947
General Cargo Ships:	;	!		,			
Number of transits	698	849	1,718	95	94	189	1,907
Panama Canal net tonnage (thousands)	6,316	6,572	12,888	601 607 67	349	950	13,838
Cargo (thousands of long tons)	5.076	5.074	10.150	9010	9310	1,36/	10.150
Passenger Ships: 2							
Number of transits	001	19	191	5	5	4	165
Panama Canal net tonnage (thousands)	1.658	970	2,628	20	31	51	2,678
Tolis (thousands of dollars)	\$3,033	\$1,//5	\$4.808 A	\$79	\$45	₹ / ₹	\$4,883
Refrigerated Cargo Ships:	:	t	٠	:	:		t
Number of transits	522	938	1,460	407	38	445	1,905
Panama Canal net tonnage (thousands)	2,847	4.948	7,795	2,194	154	2,348	10,143
Louis (thousands of long tons)	35,211	39,034	314,265	\$3,203	\$770	\$3,428	317.693
Tank Ships:	•	0/0.7	2,610		:		7,010
Number of transits	653	549	1,202	286	289	575	1.777
ranama Canal net tonnage (Inousands)	9,283 \$16,988	9,4/6 \$17.341	18,739 \$34,329	6,22/ \$9.092	55.946	10,300	\$49,367
Cargo (thousands of long tons)	14,317	15,967	30,285				30,285

OTHER TYPE SHIPS. Naval Vessels: Number of transits Displacement tonnage (thousands)	: :	: :	: : : :	6 27	98 38	15	15
Tolls (thousands of dollars)				\$28	\$39	867	29\$
Number of transits Panama Canal net tonnage (thousands)	146 621	122 585	268 1.206	237	46 159	106 396	374
Usplacement tonnage (thousands)	\$1,137	\$1.070	\$2.207	\$363	\$236	21 \$599 	\$2,806 715
SUMMARY: Total Cargo and Cargo/Passenger Ships: Number of transits	4,460	4.886	9,346	1.231	549	1.780	11.126
Panama Canal net tonnage (thousands)	65,880 \$120,568	\$133,172	138,651	22,379 \$32,673	6,309	28,688	167,340
Cargo (thousands of long tons)	73,791	64,138	137,929	:	:	:	137.929
Number of transits	146 621	122 585	268 1,206	66 237	55 159	121 396	389 1,601
Displacement tonnage (thousands)	\$1,137	\$1,070	\$2,207	45 \$391	42 \$275	87 \$666	87 \$2.873
Cargo (thousands of long tons)	360	355	715	:	:	:	715
Number of transits	4,606	5.008	9,614	1,297	604	1.901	11.515
Displacement tonnage (thousands)				45	42	87	87
Lolls (thousands of dollars)	\$121,705 74,151	\$134,242 64,492	\$255,947 138,644	\$33,004	39,48/	\$42,551	\$298,498 138,644

Includes only commercial vessels of 300 net tons and over (Panama Canal measurement) for vessels paying tolls on net tonnage basis, or of 500 displacement tons and over for vessels paying on displacement tonnage.

2 Vessels certificated for more than 12 passengers.



Table 5.—Laden and Ballast Traffic by Flag of Vessel Fiscal Year 1985

		Laden			Ballası	
	Num-		1	Num-		
	her	Panama Canal nei		her	Panama	
	of transits	tonnage	Tolls	of transits	Canal net tonnage	Tolls
Almeric	Transits	ronnage	10113	Trunsus		
Algeria		16,504	\$ 30,202	1	15,541	\$22,690
Australia	5	78,031	142,797			
Austria	3	68,331	125,046			
Bahamas	40 122	615,291 1,450,299	1,125,983 2,654,047	11	95,541	139,490
Bermuda	122	82,385	150,765	2	95,719 40,365	139,750 58,933
Brazil	28	525,401	961,484	ī	5,676	8,287
Bulgaria	9	55,784	102,085			
Canada	4	39,748	72,739	2	1,803	2,632
Chile	71	103,609 726,292	189,604 1,329,114	4 10	19,778 112,379	28,876
Colombia	143	1,972,388	3,609,470	15	105,521	164,073 154,061
Costa Rica	6	5,682	10,398			
Cuba	124	700,267	1,281,489	16	59,864	87,401
Cyprus	107 1	1,002,667 8,811	1,834,881	17	148,375	216,628
Czechoslovakia	205	4,462,658	16,124 8,166,664	35	442,306	645,767
Denmark	20	136,795	250,335	6	31.757	46,365
Ecuador	399	3,087,266	5,649,697	100	1,175,923	1,716,848
Egypt	2	37,524	68,669			
Faroes Finland	3 15	3,818 146,636	6,987 268,344	3	40,318	58,864
France	60	1,063,703	1,946,576	2	16,204	23,658
Ghana	3	29,903	54,722			
Greece	630	9,345,357	17,102,003	118	2,034,984	2,971,077
Honduras	12 23	51,629 433,714	94,481 793,697	6 2	31,650	46,209
Iceland	1	4.092	7,488		16,788	24,510
India	21	444,003	812,525	2	38,773	56,609
Indonesia	_3	27,171	49,723			
Israel	70 73	1,413,888 975,904	2,587,415 1,785,904		32.593	47,586
Japan	871	15,985,496	29,253,458	271	6,867,107	10,025,976
Jordan	2	20,478	37,475			10,023,970
Kuwait	6	75,934	138,959			
Liberia	1,081	20,498,090	37,523,021	221	4,862,247	7,098,881
Malaysia	22 14	397,304 158,356	727,066 289,791		8,708	12,714
Mauritania		150,550	207,771	í	580	847
Mexico	59	1,078,692	1,974,006	50	905,286	1,321,718
Morocco	4	56,052	102,575	1	3,053	4,457
Netherlands	184	1,906,282 45,499	3,488,496 83,263	42	322,873	471,395
Nicaragua	8	14,924	27,311	3	9,829	14,350
Norway	253	4,664,712	8,536,423	52	851,494	1,243,181
Panama	1,602	21,683,201	39,680,258	369	5,071,488	7,404,372
People's Republic of China	95 153	1,786,311 1,372,755	3,268,949 2,512,142	12	53,497 189,200	78,106 276,232
Philippines	178	2,665,319	4,877,534	19	345,908	505,026
Poland	76	543,779	995,116	5	22,232	32,459
Portugal	!	945	1,729			
Rumania	2	10,303 34,210	18,854 62,604		• • • • • • • • • •	
Samoa	2	18,398	33,668			
Saudi Arabia	4	45,410	83,100	·····i	6,625	9,672
Singapore	188	3,387,574	6,199,260	27	571,863	834,920
South Korea	3 147	27,945 2,381,534	51,139 4,358,207	7	83,821	122,379
Spain	112	629,752	1,152,446	ģ	25,696	37,516
Sri Lanka	15	198,896	363,980	3	26,452	40,080
Sweden	105	2,533,814	4,636,880	4	160,001	233,601
Switzerland	72	738,999 3,959,482	1,352,368 7,245,852	1 5	8,971 140,358	13,098 204,923
Taiwan Thailand	163	9,536	17,451		140,556	204,923
Turkey	i	3,887	7,113	- 1	3,887	5,675
United Arab Emirates	!	29,687	54,327	- I 60	29,687	43,343
United Kingdom	441 619	8,123,643 7,536,786	14,866.267 13,792,318	182	807,965 1,892,293	1,179,629 2,762,748
Uruguay	4	19.402	35,506	3	7,974	11,642
U.S.S.R	451	3,760,763	6,882,196	110	900,131	1,314,191
Vanuatu	I	442	809	· · · · · · · · · · · · · · · ·	**********	
Venezuela Vietnam	98	254,958 7,906	466,573 14,468	17	20,924	30,549
West Germany	255	3,116,454	5,703,111	30	185,378	270,652
Yugoslavia	90	949,675	1,737,905	8	143,405	209,371
Total	9,613	139,849,136	\$255,935,431	1,885	29,091,791	\$42,474,015

Above table involves only commercial vessels of 300 net tons or over, Panama Canal measurement.

Table 6.—Segregation of Transits! by Registered Gross Tonnage—Fiscal Year 1985

Average gross tonnage per vessel	9.317 9.317 20.010 20.010 12.821 12.821 12.821 12.821 12.821 12.933 7.336 11.706 11.706 11.706 10.50 1	5.714 20.930 4.808 25.087 9.848 26.664 16.598 15.975 12.974 19.447
Registered gross tonnage	18.634 18.634 100.032 81.222 81.222 81.222 81.222 81.222 81.222 1.666.031 66.021 66.021 66.021 76.510 76.510 76.510 76.510 76.510 76.510 893.139 1.246.235 1	102.859 5.23.250 4.808 5.77.010 29.544 1.86.480 1.261.444 18.243.365 95.274 25.320.131
Total2	701a 2 2 2 2 3 3 3 3 3 3	18 25 23 3 3 70 70 1.142 1.302
40,000 and over		
30,000 10 39,999	999.98	
20,000 10 29,999	29,999 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	6 6 7 70 70 20 146 146 146 266
15,000 10 19,999), (2,000) (1,	
10.000 10 14.999	27. 27. 27. 27. 27. 27. 27. 27. 27. 27.	
8.000 10 9.999	~	10 10 10 10 10 10 10 10 10 10 10 10 10 1
6,000 10 7,999	2,000 1,	107
4,000 10 5,999		59
2,000 10 3,999	9899 1	2
Under 2,000	22. 23. 7. 7. 55. 9. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	4
Flag	Algeria Argentina Australia Australia Australia Australia Bahamas Belgium Brazila Bulgaria Bulgaria Canada Cayman Islands Costa Rica Colombia Costa Rica Cuba Cuba Czechoslovakia Denmark East Germany Ecuador Egypt Faroes Finland Greece	

21,369	350 22,606	14,199	26,634	19.546	13,563	20.978	15.354	7,592	1,127	11,359	19,907	00001	17,678	10,543	18.657	5,522	15,614	19,623	29.785	12,649	4,611	34,240	12,854	4,333	9.065	467 م	0.73	13,635	13,284	15,308	
470.128 243.163	2,441,422	70,996 2,444,214	53,267	5.961.386	26,732,609	2,055,848	3.024.781	614.987	1.127	30.814	39.814.	43.756	3.800.821	31.629	2,873,155	668.218	281,049	2,100,073	5.003.859	12,649	9.222	68,480	10.232,166	30,331	5,085,512	317 655	0.172	3.885,973	1,301,820	175.897.417	
22	108	5 226	7 -	-305	1.971	86	197	8		c	710	1 v	215	3	154	121	<u>~</u> 2	109	891	-	(1)	205	796	7	961		-	285	86	11,490	
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Malaysia	Mauritania		:			Republic of China		Poland				:	Singapore		South Korea	•	٠		:	Thailand		•	United Kingdom		•		:	West Germany	:	: :	

2 Excludes 17 vessels paying tolls on displacement tonnage basis and 8 transits where no registered tonnage was reported. 1 Includes only commercial vessels of 300 net tons and over, Panama Canal measurement.

Statistics compiled by Office of Executive Planning.

Table 7.- Principal Commodities Shipped Through Canal by Fiscal Years

1983	2,889	43	95	3 8 8	2,718	888	200	392 461	73	684	340	671	110	1,556	299	-	- 2	017	9	1,084	5,335	2,738	186	205
North Pacific to Atlantic	2,743	33	115	22	2,521	811	23	459	31	591	2/2	88	52	1,839	533	7	15	710		1,757	5,749	3,182	878	254
Pacifi	3,202	52	57	22	3,020	883	72	537	37	581	1,134	67	182	2,929	421	9	- ;	210	:0 ::	1,656	5,644	3,102	802	268
[Thousands of long tons]	Canned and Refrigerated Foods	Canned Foods				Ketri	Bananas Dairy Products	-		MeatOther and unclassified	Chemical		_	Petroleum Chemicals, miscentaneous	-			Rice				Lum	Boards and planks	PulpwoodOther and unclassified
ίc	459	73	ωr	48	15	386		113	34	7	3.855	714	2,305	837	20,843	55	8,132	93	2,269	6,382	3,742	582	21	514
South Atlantic to Pacific	1984	110	77	7 %	16	455	۲,	148°	115	9 [2]	4.180	927	2,376	877	25,089	91	9,490	117	1,322	6,837	,213, 84	614	7 4	559 30
Ath	518																							475

1 475	21.	91	1,305	65	33	61	37	3,563	403	5	0, 0	1.7/1	969	314	803	3,070	1	391	4	577		149	7,45	1,46/	56	823	277	143	142	99	4,577	2,937	107	=	414	54	124	×	3.5	468	1.640	
1.631	3	32	1,464	69	29	6	28	5,424	204	011	0110	2.084	1,039	420	1.470	3,691	4	414	0	606	220	130	1547	1,203	48	725	170	98	175	59	5.028	3,825	892	71	390	73	167	0	32	572	1.539	
1.823	201	23	1.589	113	39	4	54	5,092	426	67	/00.	1,822	921	279	1.578	4,194	2	415		524	170	198	150,5	2,331	15	1,297	240	376	335	67	6,037	4,791	1.145	55	415	329	44	170	25	464	2,044	
Machinery and Equipment		Agricultural machinery and implements	Automobiles, trucks, accessories and parts	Construction machinery and equipment	Electrical machinery and apparatus	Motorcycles, bicycles, and parts	Other and unclassified	Manufactures of Iron and Steel	Angles chanes and sections	Nails tacks and enibes	Mails, darks, and spinks	Flates, sheets, and colls	Tubes, pipes, and fittings	Wire, bars, and rods	Other and unclassified	Minerals, miscellaneous	Asbestos	Вогах	Infusorial earth	Salt	Control and addition assuments.	Sould and Souldin compounds	Nitrogan Discontinuo and Describ	Militales, Phosphates, and Potash	Ammonium compounds	Fishmeal	Nitrate of soda	Phosphates	Potash	Fertilizers, unclassified	Ores and Metals	Ores	Alumina / bauxite	Chrome	Conner	Iron	-cad	Manganese	Tin	Zinc	Other and unclassified	
556		54	341	79	36	2	44	2,725	150	9		1,244	136	595	594	225	21		6	77	9	103	0 530	7,550	653	2	34	6,764	186	1,891	3,695	829	227	4	13	108	4	101	-	73	288	
550		59	292	91	4	2	64	1,842	168	25	,	809	86	307	347	177	<u>«</u>	5	6	77	22	. c	0 417	0,017	535	:	84	6,395	113	1,490	3,636	888	454	4		=	=	79		131	197	
525		59	243	104	48	7	69	1,632	123	9	0.50	950	7.2	191	316	228	20	12	2	122	17	5 =	7.050	006,/	379	-	27	5,826	127	1,590	3,391	750	375		-	69	<u>×</u>	133		46	57	

Table 7.- Principal Commodities Shipped Through Canal by Fiscal Years-Continued

٥	1983	25	1,162	9	129	~ ;	170	671	3,491	42	31	467	± <u>~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~</u>	827	49	36	19	3	803 9	20 161	9	14,123	995	2,800	34/ 0	` :	28	1 624	170'1
North Pacific to Atlantic	1984	53.	885	∞	82	m <u>s</u>	2 5	104	4,026	46	46	458	= =	011	336	8 4	96	n	2,179	18 107	× (2)	10.267	815	3,836	96/		46	167	101,1
Pacif	1985	77	818	7	96	v.	95	150	3,593	57	9/	4 4 4	145	9 - 6	10/	3.5	86	7	1,799	15 936	00000	9.029	755	3,629	659	1 -	28	220	ccc,1
(Thousands of long tons)	•	Meta		-	Hon I	- 0,		. •	Other and unclassified	ine Luc	Beans, edible		Ī	Ĭ		<u> </u>		Kudoer, raw		Wool, raw	etro	`	Crude oil		. •	,,,	Kerosene	-	4 Petroleum coke
ģ	1985	2,866	256	- :	45.	2 318	=	36	35 29	1,384	- "	12	:	12	S	67	:	<u>-</u> с	1.273		10,837	74	3,397	1,094	1,206	478	4.1.	919	799
South	1984 I 1984	2,747	309	33	2 -	727	5-1-1	53	35	1,603	4 .	0	_	15	3	36	:	:	1.493		12,555	155	3,898	3,007	983	593	104	689	460
	1983	2.641	397	42	238	1 846	15	3 2	76	1,953	26	٠ <u>٥</u>		28	e	91	51	:	1 701	-	13,727	06	4,547	1,2//	1,352	627	45	524	712

571	7,627	~	_	7	78	17	24	=	37	5	-	91	87	108	514	3	9	49	3	:	39	4	3	٣	6,514	57,762
378	8,698	=	-	Š	25	15	31	9	37	7	:	92	164	95	368	33	٣	38	10	-	40	43	4	17	7,681	62,212
52	688'6	13	\$	'n	42	9	-	5	09	21	-	54	174	151	461	-	3	34	12	15	57	38	4	=	8,717	64,492
Other and unclassified	Miscellaneous	Bricks and tile	Carbon black	Cement	Clay, fire and china	Fibers, plant	Flour, wheat	Glass and glassware	Groceries, miscellaneous	Liquors and wines	Marble and stone	Oil, coconut	Oil, fish	Oil, vegetable	Paper and paper products	Porcelainware	Resin	Rubber, manufactured	Seeds, excluding oilseeds	Slag, clinkers, and dross	Tallow	Textiles	Tobacco and manufactures	Wax, paraffin	All other and unclassified	Total
178	10,908	4	29	255	417	6	122	20	36	23	24	7	:	190	854	4	312	21	-	∞	49	65	4	7	8,397	74,151
262	10,717	24	4	174	357	40	219	24	36	91	4	4	17	247	191	e	168	45	-	72	99	47	10	91	8,326	78,259
																										87,829

Table 8.—Origin and Destination of Commercial Cargo Through the Panama Canal From Atlantic to Pacific During Fiscal Year 1985 Segregated by Countries in Principal Trade Routes

		Total	107,186 128,115 95,984 1,908,362 41,597 2,281,244	43,814	3,564,048 107,691 14,856 250 3,686,845	40.170 130.746 738.829 28.183	92,809 148,975 23,346 8,184 273,314
[Long tons]	To West Coast Central America	Balboa, R.P. 2	32.768 8.689 314.539 41.545 397.541	:	439 3.5 92.575 1 11.166	2,904 44,770 26,790 3,106 77,570 9	55.866 1
		Central America (other)	. !	3,186	77 7.562	13.662 13.662 13.977	672 516 259
		Pan- ama	603 17,194 40,766 58,563	8.281	7.551	5.687	6.540 14.421 20.961
		Nica- ragua	11.210	5,448	94.221 2.593 250 97.064	15.218 640 3.187 4.040 23.085	92.137 18.812 602 111.551
		Mexico	102,232 55,450 867,998 1.025,680	24,408	2.782.786	20.778 76.671 20,668	
		Guate- mala	22.785	:	336,594	358,285	606.19
		El Sal- vador	73.815 9.926 415.290 52 499.083	1.171	327.499 3 1.097 328.599	1,270 8,543 326,305 36,154	5.332
		Costa Rica	30.608 195,564 226,172	1,320	22,432	4.913	8,323
	To B.C. Canada	Canada	23 38 818.264	:		35.080 6.181 2.943 44.204	27,052
	To West Coast United States	Total	272,966 59,368 	19,431		791,818 9,374 307,161 30,960 1,139,313	51,589 105,810 98,766 212,684 468,838
		Main- land	247.687 56.591 845.985 207.193	19,431		791,818 9,374 247,500 30,960 1.079,652	51,589 16,839 98,755 151,707
		Нажай	25.279 2.777 260 17.830 46.146	:		59,661	53,723
		Alaska		:			35.248
			EAST COAST NORTH AMERICA: United States: North Atlantic ports South Atlantic ports Great Lakes ports Gulf ports United States (other) Total United States	EAST COAST CANADA	EAST COAST CENTRAL AMERICA: Mexico Panama Central America (other) 1. Cristobal, R.P. 2. Total Central America	EAST COAST SOUTH AMERICA. Brazil Colomba Vencyuela South America (other) ' Total South America	WEST INDIES: Cuba Jamaica Samaica Netherlands West Indies Trinidad Tobago. West Indies (other) ! Total West Indies

	56.828	59.980	20,389	39,211	37,068	53,522	27,544	7.805	655,838	37,056	240,368	1.235,609	29.690	113	8,488,557	11.4
	:	:	:	200		3,539	:				366	4,105	:	:	647.187	0.9
	263	56	727	193	:	734	701	:	36	765	27.236	30,684	:	113	97.256	0.1
	:	:		:	:	2.024	:	:	:	4.936	1.767	8.727	:	:	109.908	0.1
	15,716	45,656	1.956	9.027	14,799	16.241	26.519	220	618.511	8.270	132,313	889.228	:	:	1,137,586	1.5
	3	2,526	5.002	2,209		5,301	321	5.237	37,270	828		58.697	26.690	:	4,039,378	
	399	:	4	3,700	11,935	107	:	:	:	8,230	31,901	56,313		:	835,886	=
	30,877	3,322	12,661	22.846	10,334	23,626	:	2,020	21	12,505	38,665	156,877	:	:	1,327,216	8.1
	9.570	8.447	7	1.036	:	1.950	3	328	:	1.522	8,120	30,978	:	:	294,140	0.4
	93,390	18,009	6,939	36,937		37,555	7.479	12,265	261	47.484	136,190	399,509	8,505	43,238	1,343,777	1.8
	541,875	137,960	211,517	475.500	167,883	354,972	213,228	115,862	36,506	541,796	677.786	3,474,885	127,543	172.827	6.815.880	9.2
	540.883	137,960	211,517	475,340	167,883	354,972	212,107	115,862	36,506	540,604	677.508	3,471,142	119,021	172,827	6.547.860	8.8
	:	:	:	138	:::::::::::::::::::::::::::::::::::::::	:	:	:		893		1,031	:	:	221,538	0.3
	992	:		22			1,121	:		299	278	2,712	8.522	:	46,482	0.1
Europe:	Belgium	France	Italy	Netherlands	Norway	Spain-Portugal	Sweden	United Kingdom	U.S.S.R.	West Germany	Europe (other) 1	Total Europe	ASIA (MIDDLE EAST)	AFRICA	Grand total	Percent of Pacific-Bound Cargo

See footnotes at end of table.

59,370 23,365

9.045

48.870

525.558 46.393

163,503

10,018 4,071 5,385 19,474

64.972 88.013

17,128

33,156 656,629

5,136

185.767

30,367 16,684

306,378

22,576 4,473

1.707 1,455

32,328

.....

49.057

23,240

2.616

2.616 32,120

42,082 427,569 1,280,532

4,496 3,127

44,849

3,823

4.129 8.688 30,367

409,243 13.093 4,100

5.878 1.198,463 1,557

Vene/uela

South America (other) 1.........

Total South America

WEST INDIES:

Cuba Jamaica Frinidad, Tobago West Indies (other) ' Total West Indies

Netherlands West Indies

1,205,898

2,931

1,916,611

29,504

Table 8.—Origin and Destination of Commercial Cargo Through the Panama Canal From Atlantic to Pacific During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas-Continued

		[Long tons]	ıs]								
		To W	To West Coast South America	uth 4meric	a			,	To Oceania	,	
	Chile	Colom- hia	Ecuador	Peru	South America (other) 1	Total	Australia	French Oceania		New Oceania Zealand (other) ¹	Total
EAST COAST NORTH AMERICA: United States of America and	165 547	06X 51	056 29	177 957	21.481	443.815	88 716			79 147	190 645
South Arlantic ports	14.617	15.682	58,551	6.591	5.601	101.042	51.158	:	130,267	18.005	199,430
Great Lakes ports	121	232	552	16.851	4,650	22,406		:		:	:
Culf norts	733.841	709.810	812.067	678,107	32,320	2,966,145	1,224,797	:	253,598	108,162	1,586.557
United States (other) 1	83,791	110.61	59,534	47,012	17,329	226,677	30,700	<u>~</u>	24,235	84,557	139,510
Total United States	997,912	760.625	998.654	921.513	81,381	3,760.085	1,395,371	4	430,864	289.866	2,116,142
EAST COAST CANADA	7,145	16,974	21,905	27.232	15,612	88.868	42.815	:	15,883	49.976	108,674
EAST COAST CENTRAL AMERICA: Mexico Panama Cernital America (other) 1 Cristobal, R.P. 2 Total Central America	6.432 2.894 77,254 3.543 8,343		74.893 2.042 1.951 78.886	12.420 399 50	1,821 1,985 30 6,000 9,836	98.460 81.680 5.524 6.050			6.479	5.802 12.28	5.802 12.281
EAST COAST SOUTH AMERICA:											

EUROPE:												
Belgium	83,812	169.6	29,319	89,464	28.260	240,546	4,286	13,478	27,094	5.680	50,538	
France	5.269	6.286	6.429	27,639	6.957	52,580	2.837	169.168	101	29.120	201,226	
ltaly	6,102	9.136	9.406	5,186	6,003	35,833	1.340	7.215	9,736	8,479	26.770	
Netherlands	33,947	3,464	27.976	45,737	8,179	119,303	42,299	9.576	39,584	44,803	136,262	
Norway	707	:			354	1,061	18.062	:	:		18.062	
Spain-Portugal	26,124	7.541	141.859	15.604	11.057	202,185		767		6.062	9.638	
Sweden	25.845	4.410	6,723	8,454	5.841	51,273		:	1.236	1.800	3,195	
United Kingdom	30,966	5,216	10,675	19.840	2,077	68,774		647		46,289	102.876	
U.S.S.R.			750	12.987	104.150	117,887		:	:	:		
West Germany	73.760	20.319	48.276	35,336	17.906	195,597	5.926	6,312	20,515	23.802	56.555	
Europe (other) ¹	63,332	36,165	87.694	50.122	56,480	293,793	20.727	40.594	18,360	95,434	175,115	
Total Europe	349.864	102.228	369,107	310,369	247,264	1.378,832	108,676	247.757	162,335	261,469	780.237	
ASIA (MIDDLE EAST)		:	49	:	:	49	:	:	:	:		
AFRICA	2,387	30	77	152	4.882	7.528	5,984	:		579	6,563	
Grand total	2,953,270	1,343,217	1,766,183	1,313,802	597,214	7,973,686	1.601,903	247,798	680.009	666.399	3,139,109	
Percent of Pacific-Bound Cargo	4.0	1.8	2.4	1.8	8.0	10.8	2.2	0.3	6.0	8.0	4.2	

See footnotes at end of table.

Table 8.—Origin and Destination of Commercial Cargo Through the Panama Canal From Atlantic to Pacific During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas-Continued

Percent	Asia Grand Powinte- (other)		- 10	16.155 217.942 3.893.172 5.3 3.145 20.238 40.618 0.1 1.260 1.309 7.609 0.0 20.560 239.489 4.130.770 5.6		48.761 1.293.153 1.403.300 1.9 18.094 44.027 883.740 1.2 631 95.392 267.065 0.4 30.517 68.659 346.048 0.5 147.125 1.612.997 3.098.236 4.2
	U.S.S. R.	18,423				135,763
	Thai- land	2.027	15,465	22.003		1.583
	South Korea	1.038.478 45.870 59.158 3.105.794 214.183	57,342	977,71	11.684 25.458 42.720	33.578 9.469 2.000 45.047
sia	Singa- pore	68.478 29.952 71.351 94.640	94	5.832	3,371	2.503 10.247
ns] To Asia	Philip- pine Islands	56.267 7,145 241,798 22,948	56	139		227 2.450 2.450 2.677
[Long tons]	Japan	3,327,508 859,956 116,585 18,484,869 576,195	696,144	122,157	159,295 57,357 890,552 39,003	451.832 20.945 8.353 54.267 18.658
	Indo- nesia	5,552 5,938 119,430 17,040	5,904			3,300
	Hong Kong	111.856 128.947 532 288.226 267.797	33.015	7,121	45,951	8.034
	China (Taiwan)	1,001.669 105,645 1,518 4,176,773 284,750	34.846	11,185	2,344	21,466
	China (Main- land)	338.651 298.578 28.319 2.393.846 247.518	436,801	15.574	24.176 291.251 9.200 324.627	623,219 40,494 1,151 664,864
	FAST COAST NORTH AMERICA:		EAST COAST CANADA	EAST COAST CENTRAL AMERICA: Mexico Panama Central America (other): Cristobal, R. P. 1 Total Central America	EAST COAST SOUTH AMERICA: Brazil Colombia Venezuela South America Total South America	WEST INDIES: Cuba Jamaica Netherlands West Indies Trinidad Tobago West Indies (other) Total West Indies

EUROPE:															
Belgium	2,910		:	:	178		:	155		:	3.022	7,054	990,231	1.3	
France			26		2,346	:	: : : : :	1.681	:	:	1,137	5,190	474,945	9.0	
Italy	:		19	:	101	:	:		:	:	1,705	1.825	306.273	0.4	
Netherlands	2,910	31,406	7.953	750	86.215	523	6,464	17,965	12,601	:	44,324	211,111	1,018,324	4.1	
Norway	27,120		85	:	7.883	:			:	202		35.290	259,364	0.3	
Spain-Portugal	12,872	28	68	:	4.478	:	:	25	:	:	5,544	23.036	806.089	6.0	
Sweden			:	:	574	:	:	:	:	:		574	303.293	0.4	
United Kingdom	9.936	850	:	3.268	15,122	133	14.089	666	:	:	16,407	60.804	368,386	0.5	
U.S.S.R.			:	:	6,912	:	:		:	2.287		9,199	169.618		
West Germany	10,940	:	:	:	4,436	:	:		:	:	1.001	16.377	894.865	1.2	
Europe (other) '			:	:	23,398	:	:	1,342		:	32,061	56,801	1,580,053	2.1	
Total Europe	66.688	32.284	8,172	4,018	152,036	959	20,553	22.563	12,601	2.489	105,201	427.261	7,696,333	10.4	
ASIA (MIDDLE EAST)		:	30	:	981	:	:	336	:	:	3,059	3,611	169,398	0.2	
AFRICA	226		:	:	32,650	:	:	1,382	:	:	3,544	37.802	268.071	0.4	
Grand total	4.815.692	5.690.015	969.668	161.182	26.084.424	331,686	307.070	4.650,649	170,632	736,169	2.542,721	46,389,936	74,150,945	0.	
Percent of Pacific-Bound Cargo	6.5	7.7	1.2	0.2	35.2	0.4	0.4	6.3	0.2	1.0	3.4	62.6		100.0	

Includes cargo not routed to permit segregation between definite countries. Includes both local and transshipped cargo.

Table 9.-Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas

[Long tons]

	Total 10,949 10,949	46,008 15,586 20,210 70 31	302,608 7,173 128 1,490 347,296	43,719 54 662,245 10,103 2,521 718,642	142,322 30,499
America	Cristo- bal R.P. 2	20.210	453 721 78	746 796 1,223 2,521 5,286	
To East Coast Central America	Central America (other) 400	15.552	6,452 50 1,490 23,544	1,901	
To East Co	Panama			660,199	70 79 79 149
	Mexico 10,024 10,024	46.008	302,155	41,072 54 283 8,620 50,029	142,252 30,242
To E.C. Canada	Canada 271,300 271,300	1,054	1,054	102,049 64 120 4,352 177 106,762	336,486 17,716 26,838 37,112 418,152
	Total 220,764 174,963 2,728,980 3,124,707	2,338,235 76,657 106,285 245,679 18,034	94,409 17,486 202,228 574	1,443,332 348,370 3,817,756 1,981,038 70,111 7,660,607	2.160,667 44,048 13,587 230,363 281,215 2.729,880
s	United States (other) 1 1,347 212,181	393,560 4,353 9,287 55,507	34,733	184,217 78,799 266,633 229,600 7,154 766,403	62,773 62 19,837 36,219 118,891
To East Coast United States	Gulf ports 164.187 145.181 1.888.059 2.197.427	30.847 65.767 73.088 11.253	35.848 17.486 104.554 	299,152 119,195 2,546,580 764,992 19,627 3,749,546	1,729,564 39,982
East Coast	Great Lakes ports	8.073		2,002	22.084
To	South Atlantic ports 550 92,172	34,754 9,087 20,218 6,781	4.518	100.801 56.584 54.477 88.766 11.845 312.473	47.293 17.477 35.705 100.475
	North Atlantic ports 56,577 27,885 536,568 621,030	6,703 22,144 96,866	23,668	859,162 93,792 950,066 895,678 31,485 2,830,183	298.953 4.066 13.525 130.774 160.517 607,835
	WEST COAST NORTH AMERICA: United States: Alaska. Hawaii. Mainland Total United States.	WEST COAST CANADA WEST COAST CENTRAL AMERICA: Cosia Rica El Salvador Guatemala Honduras	Mexico Nicaragua Panama Panama Central America (other) 1 Balboa. R. P. 2 Total Central America	WEST COAST SOUTH AMERICA: Chile Colombia Equador Peru South America (other) ' Total South America	OCEANIA: Australia British Oceania Frend Oceania Oceania (other) ¹ Total Oceania

A:												
: : : : : : : : : : : : : : : : : : : :	178.731	21.477	6.381	1.119.905	86,918	1.413.412	82.946	:	:	:	:	: : : : : : : : : : : : : : : : : : : :
	430,986	137,313	:	46,421	234,202	848,922	30,162	:		999	13,176	13.742
	189,394	81,583	:	6,211	116,707	393,895	25,317	:	:	275	4,535	4,810
	72,090	59,393	:	101,144	173,166	405,793	:	1,534		:	:	1.534
	2,035,174	930,699	347,599	3,024,341	968,010	7,305,823	156,915	28.574		2,564	31,294	62,432
	198,442	24.690	:	25,862	231,363	480,357	5.027	1.016	:::::::::::::::::::::::::::::::::::::::	:	-	1,017
	170,819	72.865	:	64,245	100,992	408,921	518	:	:	130	294	424
	218,671	104,401	63	392,093	297,196	1.012.427	16,455	:	:	1,626	4.726	6,352
	089	:	:	84,101	14,110	168.86	:	41,668	:	:	:	41,668
	:	:	:	:	:	:	:	:	:	:	:	
	1.273.276	555,106	:	337.033	357.870	2,523,285	106,485	8,413		8,613	78,886	95.912
	4,768,263	1,987,530	354,043	5,201,356	2,580,534	14.891,726	423.825		:	13,774	132,912	227,891
	9,993,106	2,993,508	386,202	13,942.873	4.190,818	31,506,507	1,229,318	661.948	661,248	39,946	160,465	1.523,607
	15.5	4.6	9.0	21.6	6.5	48.9	1.9	1.0	1.0	0.1	0.2	2.4

See footnotes at end of table.

Table 9.-Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas-Continued

[Long tons]

		To East C	To East Coast South America	America					To We	To West Indies				
WEST COAST NORTH AMERICA: United States:	Brazil	Colom- bia	Vene- zuela	South America (other)	Total	Cuba	Haiti/ Domini- can Republic	Jamaica	Nether- lands West Indies	Puerto Rico	Trini- dad/ Tobago	West Indies (other)	Total	
Alaska Hawaii Maniland Total United States	78.966	8,199	5,875 64,151 70,026	2,312	5,875 153,628 159,503		112	59 575 634	149.708	73,303	54,677	497,896 180,563 678,459	552,632 112 404,149 956,893	
West Coast Canada	590,922	1,191	293,297	=	885,421	163,782	:	18.069	:	32,857	:	9.976	224,684	
WEST COAST CENTRAL AMERICA: Costa Rica El Salvador Guatemala Honduras Mexico Nicaragua Panama Central America (other) ¹ Balboa, R.P. ² Total Central America		9,457	20,690 	76 76 300 300	20,690 9,457 1,472 402 771 25,141 88	7.029 18.282 1.792 3.042	73 639	808 9,842 	18.509	500 5.621 714 8.166 63.957 78.958	2,677 2,952 19,823 19,823 25,452	656 461 850 12.146	1,308 31,365 18,415 20,479 8,277 18,282 9,958 69,490	
WEST COAST SOUTH AMERICA: Chile Colombia Ecuador Peru. South America (other) 1. Total South America	566 11.428 92 12.086	8.181 784,456 120,629 80,863 8,891 1,003,020	95,609 104,775 2,351 81,027 10,470 294,232	535 2.000 4.512 3.578 10.625	104.325 891.231 123.546 177.830 23.031 1.319.963	15,442	29,720	236,430	152,967 154,064 307,031	22.974 1.951.728 1.166.289 3.388 3.144.379	52,375	10,785 64,963 117,795	63.479 2,458,463 1,453,958 38,890 4,014,790	
OCEANIA: Australia Australia British Oceania French Oceania New Zealand. Oceania (other) ! Total Oceania		1.012	688		688	13,210	8,692	334 267 410 1,011	850 	46.815 338 55.725 102.878	7,190	6,140	61,329 338 35,110 56,135 152,912	

ina	:	:	63,408	:	63,408	114,448		677				×	115 163	
ıwan	497	79	6,461	1,453	8,490	:	4.909	34,902	4	6,236	2.677	3.453	52.341	
ng Kong	883	:	11,217	783	12,883	:	411	18,340	206	448	1,230	2,172	23,107	
tonesia	: : : : : : : : : : : : : : : : : : : :	:	:	:	:	:	:	:	:	118,876			118.876	
oan	32,726	186,226	109,134	30.676	358,762	127,047	35,001	51,694	8,812	131,413	30,389	63,848	448.204	
ilippine Islands	:	:	:	:	:	: : : : :		:	:	:		12	12	
gapore	105	:	4.657	2,140	6,902	1.051	:	2,524	20	1.000	329	276	5.200	
uth Korea	:	705	2,909	548	4,162	6,012	3,190	4,299	114	3,703	1.215	4.770	23.303	
ailand	:	:		:	:	90,421	:	:	:	:			90,421	
S.S.R.	:	:	:	:		231,315	:	:					231,315	
ia (other) 1	5.188	21.020	56,590	13,479	96.277	34,449	22.659	60.149	3,312	40,100	20,768	31,217	212.654	
Fotal Asia	39,399	208,030	254,376	49.079	550.884	604,743	66,170	172,585	12,928	301,776	56,608	105,786	1,320,596	
Grand total	721,373	1,231,540	979.116	62,849	2,994,878	862,574	105,774	440,631	489,466	3,734,151	198,968	1,015,885	6.847.449	
of Atlantic-Bound Cargo		1.9	1.5	0.1	4.6	1.3	0.2	0.7	8.0	5.8	0.3	1.6	10.6	

See footnotes at end of table.

Table 9.—Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas—Continued

[Long tons]

							To E	urope						
WEST COAST NORTH AMERICA:		Den-	East				Nether-	Spain/		United		West	Europe	
United States:	Belgium	mark	Germany	Finland	France	Italy	lands	Portugal	Sweden		U.S.S.R.	Germanı	(other)	Total
Alaska					12			1,407				195	36,729	38,343
Hawaii			• • • • • • • •										26,573	26,573
Mainland	392,508	566	• • • • • • • •		99,710	195,255	1,827,915	202,503	44,910	179,061	41,594	127,428	452,398	3,563,848
Total United States	392,508	566			99,722	195,255	1,827,915	203,910	44,910	179,061	41,594	127,623	515,700	3,628,764
WEST COAST CANADA	869,335	445,985	373,064	384,843	664,146	473,922	825,031	32,079	329,593	870,849	121,951	275,007	1,292,328	6,958,133
WEST COAST CENTRAL AMERICA:														
Costa Rica	41				389	2,614	625	31		1,191	6,244	14,943	3,783	29,861
El Salvador	697				20,547	1,816	2,025	3,212		312	34	22,421	18,472	69,536
Guatemala						33,539	30	23				11,706	23,604	71,388
Honduras						4,428	66	8,990				1,868	1,280	16,632
Mexico					6,688	4,341	4,531	56,832	2,000	4,451		124,265	24,148	227,273
Nicaragua	44.693			• • • • • • • •	1,989	279	11,852	3,917		498		9,006	6,215	87,232
Panama	18					33,203	19,232	1,847		· · · · · · · · · · · · · · · ·			16,677	70,977
Central America (other) 1	2,241				5,533	2,713	1,395	4,995	• • • • • • • • • • • • • • • • • • • •	800	189	43,215	26,109	87,190
Balboa, R.P. 2	24	• • • • • • • •		• • • • • • •				30	• • • • • • • • •	• • • • • • •	133	• • • • • • • •	16	203
Total Central America	47,714	17	11,269	• • • • • • • • • • • • • • • • • • • •	35,146	82,933	39,756	79,877	2,000	7,252	6,600	227,424	120,304	660,292
WEST COAST SOUTH AMERICA:														
Chile	186,971	1,111	70,802		89,329	185,331	323,059	41,623	32,893	111,196		440,113	213,735	1,696,163
Colombia	13,406				265	86	32,310	2,648	1,335	994		121,560	7,050	179,654
Ecuador	57,402	104	19,557	109	8,080	47,215	55,151	5,170	653	15,518	31,354	108,611	131,025	479,949
Peru	351,539	64	1,182	37,187	36,328	108,585	70,280	32,394	8,152	61,187	193,440	206,327	396,670	1,503,335
South America (other) 1	12,802				35,822	51,183	55,419	25,509	2,182	27,629	508,470	35,459	112,897	867,372
Total South America	622,120	1,279	91,541	37,296	169,824	392,400	536,219	107,344	452152	216,524	733,364	912,070	861,377	4,726,473
OCEANIA:														
Australia	7.828					2,793	13,016			11,387		8,991	6,151	50,166
British Oceania		3,425						27,559		138,137			29,528	198,649
French Oceania	18,601				55,235	4,774		489					46,133	125,232
New Zealand	88,929		1,347		14,567	1,570			6,374	27,254		15,683	40,434	431,490
Oceania (other) 1	12,952	<u> </u>			25	1,226	9,175			37,931		7,452	20,562	89.323
Total Oceania	128,310	3,425	1,347		69,827	10,363	257,523	28,048	6.374	214,709		32,126	142,808	894,860
ASIA:														
China														
Taiwan					607		2,708						173	3,488
Hong Kong					1,606		1,567	536					86	3,795
Indonesia														
Japan	3,717				3,634		49,079	786		7,514		5,964	17,046	87.740
Philippine Islands							12,378							12,378
Singapore					119		424							543
South Korea					67		1,390	170					71	1,698
Thailand														
U.S.S.R.														13,591
Asia (other) 1	41				1,925	511	65	2,773		141		152	4.099	9.707
Total Asia	3,758				7,958	511	67,611	4,265		7.655	13,591	6,116	21,475	132,940
Grand total	2,000,775	451,272	477,221	422,139	1,046,623	1,155,384	3,554,055	455,523	428,092	1,496,050	917,000	1,580,366	2,953,992	17,001,462
Percent of Atlantic-Bound Cargo	3.2	0.7	0.7	0.7	1.6	1.8	5.5	0.7	0.7	2.3	1.4	2.5	4.6	26.4

See footnotes at end of table.



Table 9. - Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas-Continued [Long tons]

	To Asia (Middle East)				To Africa					Percent
WEST COAST NORTH AMERICA: United States:	Asia (Middle East)	Algeria	Egypt	Morocco	South Africa	Tunisia	Africa (other) ¹	Total	Grand Total	Atlantic- bound cargo
Alaska Hawaii Mainland	40.290	85.771	3,064	85.494	64.716		175.511	3,064	814,803 207,523 7,915,921	1.3 0.3 12.3
Total United States	40.290	85,771	334,349	85,494	64,716		115.511	745,841	8,938,247	13.9
West Coast Canada	266,456	240,426	530,030	195,561	130,176	387,918	108,018	2,070,129	12,796,237	8.61
WEST COAST CENTRAL AMERICA: Costa Rica El Salvador Gustrador	1,274					497		497	145,653 238,127 340,037	0.2
	2,202	5,954					5.429	5,954 34,293	66.581 642,195 164,868	0.1
Panama Central America (other) ¹ . Balboa, R.P. ²	44,341						6.04.1	1,679	331,008 181,949 2,355	0.5 0.3 0.0
Total Central America	51,959	34,818			:	840	18,513	54,171	2,112,773	3.3
WEST COAST SOUTH AMERICA: Chile Colombia	15,681		940			766.7	790	9.727	3,478,475	5.4
Ecuador Peru South America (other) 1	20,559					1,504	2,823 9,882 10,337	2,823 9,882 11,841	5,161,057	8.0 1.6
Total South America	64,677	:	940	:	:	9.501	23,832	34,273	18,646,187	28.9
OCEANIA: Australia British Oceania French Oceania French Oceania New Zealand Oceania (other) Total Oceania		43.179		896.1			499	45,646	2,751,658 260,751 138,819 820,344 463,785 4,435,357	4.3 0.4 0.2 1.3 0.7

	2.6	1.5	0.7	8.0	13.1	8.0	0.7	1.7	0.4	0.4	4.7	27.2		100.0
	1,674,929	957,556	463,893	526,203	8,426,137	498.791	422,508	1.065,116	230.980	244,906	3,052,478	17,563,497	64,492,298	
	:	:		:	5,218	:		710	:	:		6,028	2,956.088	4.6
	:		:	:	5,218			710	:	:		5,928	332,301	0.5
	:				:		:	: : : : : : : : : : : : : : : : : : : :		:		:	398,259	9.0
	:	:	:		100	:	:	:::::::::::::::::::::::::::::::::::::::	:			00	194,992	0.3
	:	:	:	:		:	:	:	:	:		:	761,023	1.2
		:	:	:		:	:	:	:			:	865,319	132
	:	:	:	:	:	:	:	:	:	:		:	404,194	9.0
		14	98	:	943			6			8.158	6.607	432,989	0.7
ASIA:	China	Taiwan	Hong Kong	Indonesia	Japan	Philippine Islands	Singapore	South Korea	Thailand	U.S.S.R.	Asia (other) 1	Total Asia	Grand total	Percent of Atlantic-Bound Cargo

Also includes cargo not routed to permit segregation between definite countries.
 Includes both local and transshipped cargo.

Table 10.—Important Commodity Shipments Over Principal Trade Routes
Atlantic to Pacific

•		Fiscal year	
EAST COAST UNITED STATES TO WEST COAST UNITED STATES:	1985	1984	1983
Canned and refrigerated foods, miscellaneous	5 321	383	1 309
Caustic soda	93 116	188 86	127 54
Chemicals, unclassified Petroleum chemicals, miscellaneous	112	109	128
Machinery and equipment, miscellaneous		3 14	8
Other and unclassified	38	14 64	76
Nitrates, phosphates, and potash Ammonium compounds	16	15	49
Phosphates	22	49	27
Ores and metals		<u>137</u>	$\frac{30}{30}$
Ore, alumina/bauxite Petroleum and products	530	479	800
Fuel oil, residual	37 147	61 75	381 87
Gasoline	28	32	45
Lubricating oil	260 57	251	186
Petroleum cokeOther and unclassified	1	60	101
Miscellaneous	472	<u>514</u> 514	$\frac{413}{413}$
All other and unclassified	1,366	1,595	1,637
Total			
EAST COAST UNITED STATES TO WEST COAST CANADA:	000	027	540
Nitrates, phosphates, and potash	808 808	937	<u>569</u>
Phosphates	10	9	27
All other and unclassified	10	9	27
Total	818	<u>946</u>	596
EAST COAST UNITED STATES TO WEST COAST CENTRAL			
AMERICA Chemicals and petroleum chemicals, miscellaneous	16	10	20
Coal	322		88
Grains	$\frac{-760}{95}$	<u>697</u> 227	-1,924 860
Corn	131	104	379
Soybeans	294 236	148 210	461 219
Wheat Other and unclassified	4	8	5
Lumber and products, miscellaneous		6	2 3
Machinery and equipment, miscellanous	2	2	5
Manufactures of iron and steel, miscellaneous Minerals, miscellaneous	<u></u>	13	1
Borax Soda and sodium compounds		8	1
Sulfur	490	5 291	334
Nitrates, phosphates, and potash Ammonium compounds	116	76	117
Fertilizers, unclassified	136	85	121 71
PhosphatesPotash	219 19	119 11	25
Other agricultural commodities	59	89	
Oilseeds	59	26	55

		Fiscal year	
EAST COAST UNITED STATES TO WEST COAST CENTRAL AMERICA—Continued Other agricultural commodities—Continued	1985	1984	1983
Sugar		63	22
Petroleum and products Diesel oil	<u>171</u> 37	95	$\frac{54}{2}$
Gasoline	13	i	2
Fuel oil, residualLubricating oil	94 6	78 10	45 5
Petroleum products, miscellaneous	21	6	
Miscellaneous	64	78	$\frac{85}{2}$
Paper and paper products	17	23	30
Tallow	22 24	14 41	10 43
Total	1,884	1,281	2,593
EAST COAST UNITED STATES TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods, miscellaneous Chemicals and petroleum chemicals	23 231	36	29
Caustic soda	61	<u>183</u> 42	<u>186</u>
Chemicals, unclassified	164 6	128 13	134
Coal and coke	162	161	227
Grains	1,772	2,806	3,100
Corn	1	347 3	619 7
Rice Sorghum	37 85	85 22	20 122
Soybeans	154	137	162
Wheat	1,403 1	2,210	2,165
Lumber and products	8	7	15
PulpwoodOther and unclassified	4	5 2	13
Machinery and equipment	52	66	67
Agricultural machinery and implements Automobiles, trucks, accessories, and parts	15 14	18 19	19 22
Construction machinery and equipment	14	18	13
Electrical machinery and apparatus Other and unclassified	6	8	6 7
Manufactures of iron and steel	26	30	30
Angles, shapes, and sections	5 5	3 6	9 4
Tubes, pipes, and fittings	5 7 3	12	7
Other and unclassified	6	6	8 2
Minerals, miscellaneous	45	14	23
Soda and sodium compounds	36 7	14	18 2
Other and unclassified	2 445	417	3 282
Ammonium compounds	13	22	8
Fertilizers, unclassified	147 261	230 147	150 111
Potash	24	18	13
Ores missellaneous	158	132	46
Ores, miscellaneous	26	3	7

Table 10.—Important Commodity Shipments Over Principal Trade Routes
Atlantic to Pacific—Continued

[Thousands of long tons]	Fiscal vear		
Ware Court	1985	1984	1983
EAST COAST UNITED STATES TO WEST COAST	1983	1984	1903
SOUTH AMERICA—Continued Ores and metals—Continued			
Metals	132	127	39
Scrap	127	111	30
Tin, including tinplate	3	2	3
Other and unclassified	2	14 44	6 10
Other agricultural commodities	5		
Oilseeds	4	43	2
SugarOther and unclassified	· · · · · · i		3
Petroleum and products	256	466	439
Diesel oil	65	183	130
Gasoline	75	142	134
let fuel		_5	12
Liquified natural gas	52	54	54
Inbricating oil	25 29	37 38	37 29
Residual fuel oil	10	7	43
Other and unclassified	577	665	670
	3	3	3
Bricks and tile	ĺ		Ī
Clay, fire, and china	13	17	10
Flour wheat	15	44	59
Groceries, miscellaneous	2		7 4
Oil, coconut	1 54	3 66	127
Oil, vegetable	111	109	99
Paper and paper products	36	23	33
Rubber, manufactured	4	6	7
Tallow	33	43	49
Textiles	7 297	9 342	8 263
All other and unclassified			5,124
Total	3,760	5,027	3,124
EAST COAST UNITED STATES TO BALBOA, R.P.:		0	0
Canned and refrigerated foods, miscellaneous	9	8 88	8 93
Grains	84	26	35
Corn	33 51	60	48
WheatOther and unclassified	51	2	10
Machinery and equipment, miscellaneous	i	4	4
Ores and metals, miscellaneous	7	3	4
Petroleum and products	169	186	248
Diesel	63	25	
Fuel oil, residual	98	140 21	237 11
Other and unclassified	8 128	140	144
Miscellaneous	11	14	14
Oil, vegetable	117	126	130
All other and unclassified	398	429	501
Total	====		===
EAST COAST UNITED STATES TO HAWAII:	4.4	29	53
Miscellaneous	46	$\frac{-29}{29}$	$\frac{-33}{53}$
All other and unclassified	46		53
Total	46		
EAST COAST UNITED STATES TO OCEANIA:			
Chemicals and petroleum chemicals	519	<u>705</u>	570

		Fiscal vear	
	1985	1984	1983
EAST COAST UNITED STATES TO OCEANIA—Continued			
Chemicals and petroleum chemicals—Continued			
Caustic soda	430	560	390
Chemicals, unclassified	82 7	145	172 8
Petroleum chemicals, miscellaneous Coal and coke	,		30
Grains	48	32	116
Rice			1
Soybeans	48	29	105
Other and unclassified		3	10
Lumber and products	2	9	
Pulpwood	2	9	
Machinery and equipment	11	13	12
Agricultural machinery and implements	1	8	2
Automobiles, trucks, accessories and parts	4	1	1
Construction machinery and equipment	5	2	6
Electrical machinery and apparatus			1
Other and unclassified	1	2	2 3
Minerals, miscellaneous	10		1
Nitrates, phosphates, and potash	743	500	710
Ammonium compounds	10	13	8
Fertilizers, unclassified	191	122	184
Phosphates	510	348	513
Potash	32	17	5
Petroleum and products	338	265	293
Diesel oil	44		
Liquefied gas	105	66	21
Lubricating oil	23	16	8
Residual fuel oil	156	177	144
Petroleum coke	156 10	177 4	101 19
Miscellaneous	445	612	574
Clay, fire and china	24		11
Glass and glassware			2
Oil, vegetable	3	4	3
Paper and paper products	18	27	35
Resin	1	12	19
Rubber, manufactured		1	1
All other and unclassified	399	568	503
Total	2,116	2,136	2,309
EAST COAST UNITED STATES TO ASIA:			
Canned and refrigerated foods	111	177	189
Canned foods, miscellaneous	3	6	7
Refrigerated foods	108	171	182
Fruit	28	104	89
Meat	Ĩ	i	2
Other and unclassified	79	66	91
Chemicals and petroleum chemicals	1,919	2,148	2,257
Caustic soda	41	49	56
Chemicals, unclassified	1,340	1,423	1,494
Petroleum chemicals, miscellaneous Coal and coke	538	676	707 8 720
Grains	7,990 17,731	7,838 20,962	8,729 29,326
	31	20,702	104
Barley	7,853	8,878	20,103
Rice	7,833	0,070	25,103
	•		

		Fiscal year	
	1985	1984	1983
EAST COAST UNITED STATES TO ASIA—Continued			
Grains—Continued	2,033	1,195	834
Sorghum	5,725	6,148	6,264
Wheat	1,984	4,679	1,955
Other and unclassified	104	62	41
Lumber and products	284	229	281
Pulpwood	279	225	258
Other and unclassified	.5	4	23
Machinery and equipment	49	49	67
Agricultural machinery and implements	5	4	6
Automobiles, trucks, accessories and parts	5 14	10 10	7 23
Construction machinery and equipment Electrical machinery and apparatus	6	9	11
Other and unclassified	19	16	20
Manufactures of iron and steel	41	103	96
Angles, shapes, and sections	1	34	33
Plates, sheets, and coils	9	15	8
Tubes, pipes, and fittings		3	21
Wires, bars, and rods			4
Other and unclassified	31 4	51	30
Nitrates, phosphates, and potash	5,193	5,207	4,961
Ammonium compounds	122	93	47
Fertilizers, unclassified	249	329	401
Phosphates	4,810	4,775	4,477
Potash	12	10	36
Ores and metals	2,149	1,988	1,810
Ores, miscellaneous Metals	64 2,085	7 1,981	25 1,785
Aluminum	2,003	26	26
lron	24		69
Scrap	2,048	1,946	1,654
Tin, including tinplate	. 1	1	3
Other and unclassified	11	8	33
Other agricultural commodities	$\frac{6}{2}$	24	59
Beans, edible	2 4	22	34 23
Cotton, rawOther and unclassified	-	2	2
Petroleum and products	821	598	1,234
Gasoline	3	4	18
Liquefied gas	130	178	360
Lubricating oil	71	103	58
Petroleum coke	447	260 34	590 24
Diesel	50		145
Jet fuel	28		29
Other and unclassified	92	19	10
Miscellaneous	4,678	4,689	4,039
Bricks and tile	1		ı
Carbon black	24 364	320	323
Clay, fire and china	6	21	15
Flour, wheat	4	50	103
Groceries, miscellaneous	16	12	. 7
Marble and stone	9	16	11
Oil, vegetable	70 184	67 164	47 243
Paper and paper products	104	104	443

		Fiscal year	
	1985	1984	1983
EAST COAST UNITED STATES TO ASIA—Continued Miscellaneous—Continued			
Resin	181	80	106
Rubber, manufactured	7	27	5
Tallow	2	2	6
Textiles	50 4	27 7	17 45
Tobacco and manufactures All other and unclassified	3,756	3,896	3,110
Total	40,976	44,012	53,049
EAST COAST CANADA TO WEST COAST UNITED STATES:			
Miscellaneous	19	46	11
Pulpwood		1	2
All other and unclassified	19	45	9
Total	19	46	11
EAST COAST CANADA TO WEST COAST CENTRAL AMERICA:			
Manufactures of iron and steel, miscellaneous	24		1
Miscellaneous	20	36	57
Paper and paper products	11	12	10
All other and unclassified	9	24	47
Total	44	36	58
EAST COAST CANADA TO WEST COAST SOUTH AMERICA:		5	0
Grains	• • • • • • • • • • • • • • • • • • • •	5	8
BarleyOther and unclassified			3
Machinery and equipment, miscellaneous		5	5
Manufactures of iron and steel, miscellaneous		4	17
Minerals, miscellaneous	9	12	13
AsbestosOres and metals	9 1	12	13 1
Metals		2	<u>-</u>
Tin, including tinplate	 i	<u></u>	
Other and unclassified		2	1
Miscellaneous	79	107	89
Paper and paper products	33	48	45
All other and unclassified	46	59	44
Total	89	135	133
EAST COAST CANADA TO OCEANIA:	100	120	100
Miscellaneous	109	129	100
Paper and paper products	109	10 119	100
Total	109	129	100
EAST COAST CANADA TO ASIA:	====		
Canned and refrigerated foods	51	43	49
Refrigerated foods	51	43	49
Fish	23	25	31
Other and unclassified	28	18	18
Chemicals and petroleum chemicals, miscellaneous	5		4
Grains	107	<u>176</u>	88
Soybeans	79	176	45 43
Other and unclassified	28		
Lumber and products	185	228	146
Pulpwood	185	226	144
Other and unclassified	• • • • • • •	2	2

	_	Fiscal vear	
	1985	1984	1983
EAST COAST CANADA TO ASIA—Continued	2	,	
Machinery and equipment, miscellaneous	2 25	1 42	58
Ores and metals	355	335	550
Ores, miscellaneous	48	117	108
Metals	307	218	442
Aluminum	45	40	142
Copper	59 48	30	24
IronScrap	124	118	87 160
Other and unclassified	31	51	53
Miscellaneous	796	650	674
Paper and paper products	193	70	105
Resin	59	16	26 15
Slag All other and unclassified	544	564	528
Total	1,526	1,475	1,569
		= 1,175	
EAST COAST CENTRAL AMERICA TO WEST COAST UNITED			
STATES: Nitrates, phosphates, and potash		14	28
Amonium compounds	•••••	14	15
Fertilizers, unclassified			13
Miscellaneous		14	19
All other and unclassified		14	19
Total		28	47
EAST COAST CENTRAL AMERICA TO WEST COAST CENTRAL AMERICA:			
Nitrates, phosphates, and potash	536	132	102
Ammonium compounds	45	25	
Phosphates Fertilizers	86 405	107	102
Petroleum and products	3,022	4,092	3,247
Asphalt	49	17	
Crude oil	745	931	1,378
Diesel oil	111	79	139
Liquefied gasFuel oil, residual	327 1,734	312 2,337	198 1,396
Gasoline	1,734	2,337	1,370
Other and unclassified	39	416	136
Miscellaneous	24	16	3
All other and unclassified	24	16	3
Total	3,582	4,240	3,352
EAST COAST CENTRAL AMERICA TO WEST COAST SOUTH AMERICA:			
Nitrates, phosphates, and potash	2	26	20
Fertilizers, miscellaneous	2	26	20
Other agricultural commodities	• • • • • • •	5	• • • • • • •
Sugar	138	5 70	5
Petroleum and products	138	70	
Miscellaneous	46	106	39
All other and unclassified	46	106	39
Total	186	207	64

	_	Fiscal year	
From Court Characte August to Distance D. D.	1985	1984	1983
EAST COAST CENTRAL AMERICA TO BALBOA, R.P.: Petroleum and products	104	65	56
Diesel oil	30	4	33
Fuel, oil, residual	73 1	61	23
Total	104	65	56
EAST COAST CENTRAL AMERICA TO OCEANIA:			
Petroleum products	12	46 11	
All other and unclassified	12	11	$\frac{4}{4}$
Total	12	57	4
EAST COAST CENTRAL AMERICA TO ASIA:			
Chemicals and petroleum chemicals	19	13	10
Nitrates, phosphates, and potash Fertilizers, miscellaneous	18	• • • • • • • • • • • • • • • • • • • •	10
Ores and metals, miscellaneous	90	43	61
Other agricultural commodities	2	2	11
Coffee Petroleum and products	2	2	11 56
Crude petroleum			56
Miscellaneous	109	73	76
All other and unclassified	109	73	76
Total	238	131	224
EAST COAST SOUTH AMERICA TO WEST COAST UNITED			
STATES: Canned and refrigerated foods, miscellaneous	9	16	2
Chemicals and petroleum chemicals	77	74	2 90
Lumber and products, miscellaneous	26 648	31 171	24
Ores and metals	76	30	181 44
Ores	74	27	44
Alumina/bauxite	64	27	24
Other and unclassified	10	3	20
Other agricultural commodities	9	6	11
Cocoa and cacao beans	1 8	6	1 5
Sugar, raw			5
Petroleum and products	95	450	480
Asphalt Crude oil		107 136	56 258
Diesel oil	22		29
Fuel oil, residualGasoline	28	62 89	50 87
Jet fuel	42	32	
Liquefied gas Petroleum products, miscellaneous	i	24	
Miscellaneous	140	97	38
Paper and products	9	10	23
All other and unclassified Total	1,080	87 875	- 15 870
			====

	_	Fiscal year	
	1985	1984	1983
EAST COAST SOUTH AMERICA TO WEST COAST CANADA:	24	42	22
Manufactures of iron and steel	26 18	43 16	33
All other and unclassified	18	16	•••••
		59	22
Total	44		33
EAST COAST SOUTH AMERICA TO WEST COAST CENTRAL			
AMERICA:	77	103	79
Coal	49	205	• • •
	21		• • • • • • • •
Sorghum	28	197	
Other and unclassified		8	
Nitrates, phosphates, and potash	17	23	55
Fertilizers, miscellaneous	17	23	55
Petroleum and products	687	594	669
Crude oil	659	594	667
Liquefied gas	•••••	• • • • • •	2
Other and unclassified	28	12	52
Other agricultural commodities	• • • • • • • • • • • • • • • • • • • •	12	<u>52</u> 52
Sugar Miscellaneous	30	48	7
All other and unclassified	30	48	 7
Total	860	985	862
		====	
EAST COAST SOUTH AMERICA TO WEST COAST			
SOUTH AMERICA: Chemicals and petroleum chemicals, miscellaneous	8	18	12
Grains	Î	7	2
Oats	<u> </u>		2
Grains, miscellaneous		6	
Manufactures of iron and steel	170	87	34
Minerals, miscellaneous	6	• • • • • • •	• • • • • • • •
Salt	6		
Nitrates, phosphates, and potash	91	57	62
Fertilizers, unclassified	91	57	62
Ores and metals	13	28	26
Ore, alumina/bauxite	6 7	18 10	14 12
Metals, miscellaneous Other agricultural commodities			18
Sugar			13
Other and unclassified			5
Petroleum and products	1,582	1,568	1,654
Crude oil	1,133	1,085	1,116
Diesel oil	77	102	168
Fuel oil, residual	32 271	26 224	112 180
Gasoline	9	25	180
Liquefied gas			4
Lubricating oil	42	23	44
Other and unclassified	18	83	12
Miscellaneous	45	64	48
All other and unclassified	45	64	48
Total	<u>1,916</u>	1,829	1,856
EAST COAST SOUTH AMERICA TO BALBOA, R.P.:			
Petroleum and products	71	42	74
Diesel oil	65	20	19

		Fiscal vear	
From Coron South Arrange to Driver D.D. Cord	1985	1984	1983
EAST COAST SOUTH AMERICA TO BALBOA, R.P.—Continued Petroleum and products—Continued			
Gasoline	l	22	8
Fuel oil, residual	5 7	5	47 4
All other and unclassified	7	5	4
Total	78	47	78
EAST COAST SOUTH AMERICA TO HAWAII:	(0	50	
Petroleum and products	60	<u>59</u> 26	·····
Kerosene		33	
Total	60	59	·····
EAST COAST SOUTH AMERICA TO OCEANIA: Petroleum and products	29	30	25
Miscellaneous	3	3	47
All other and unclassified	3	3	47
Total	32	33	72
EAST COAST SOUTH AMERICA TO ASIA:	1.5	22	10
Canned and refrigerated foods, miscellaneous Chemicals and petroleum chemicals, miscellaneous	15 70	22 47	19 38
Grains, miscellaneous	53		
Lumber and products, miscellaneous	42 357	32 88	29 143
Nitrates, phosphates, and potash			2
Fertilizers, miscellaneousOres and metals	264	290	2
Ores	<u>364</u>	121	$\frac{323}{103}$
Alumina/bauxite	14	49	16
Iron	64		10
ManganeseOther and unclassified	66 2	37 35	74 3
Metals, miscellaneous	218	169	220
Other agricultural commodities	$-\frac{5}{3}$	•••••	$\frac{4}{2}$
Other and unclassified	2		2
Petroleum and products	632	1,031	1,093
Crude oil	508 29	892	846 61
Gasoline	34		53
Jet fuel Liquefied gas	61	92	30 8
Residual fuel oil			48
Other and unclassified	29	47 27	47 32
Paper and products		16	32
All other and unclassified	29	11	32
Total	1,567	1,537	1,683
WEST INDIES TO WEST COAST UNITED STATES: Chemicals and petroleum chemicals, miscellaneous		17	
Manufactures of iron and steel	30	30	33
Minerals, miscellaneous	38	24	24
Salt Nitrates, phosphates and potash	38 63	24 82	24
Ores and metals	57	253	251
Ore, alumina/bauxite	57	184	251

		Fiscal year	
	1985	1984	1983
WEST INDIES TO WEST COAST UNITED STATES—Continued			
Ores and metals—Continued Metals, miscellaneous		69	
Petroleum and products	166	233	487
Asphalt		27	31
Liquefied gas		17	202
Fuel oil, residual	43	60	287 58
Jet fuel	106	60	64
Lubricating oil	17	69	47
Miscellaneous	• • • • • • • • • • • • • • • • • • • •	46	• • • • • • • • • • • • • • • • • • • •
All other and unclassified		16	· · · · · · ·
Total	354	655	795
WEST INDIES TO WEST COAST CENTRAL AMERICA:			
Chemicals and petroleum chemicals, miscellaneous	1	2	1
Other agricultural commodities	3	18	
Sugar	125	18	11
Petroleum and products	135	187	<u>265</u> 34
Crude oil	44	81	97
Fuel oil, residual	8		7
Gasoline	54	49	78
Kerosene	15 5	16 6	17 4
Lubricating oil	9	36	28
Miscellaneous	71	71	45
Cement	15	4	6
All other and unclassified	56	67	39
Total	210	278	322
WEST INDIES TO WEST COAST SOUTH AMERICA.			
Chemicals and petroleum chemicals, miscellaneous			3
Nitrates, phosphates and potash	41	53	
Other agricultural commodities	2	6	47 9
Sulfur	$\frac{2}{2}$	6	
Ores and metals	13	12	
Ores, miscellaneous	8	7	
Metals, miscellaneous	5	5	
Petroleum and products	567	733	975
Crude oil	232	357	45 363
Fuel oil, residual	76	91	53
Gasoline	138	147	379
Jet fuel	16	5	28
Kerosene	7	39	26 7
Lubricating oil	98	79	56
Other and unclassified		15	18
Miscellaneous	7	16	27
All other and unclassified	7	16	27
Total	630	820	1,061
WEST INDIES TO BALBOA, R.P.:			
Petroleum and products	64	97	297
Diesel oil	55	28	110

Table 10.—Important Commodity Shipments Over Principal Trade Routes
Atlantic to Pacific—Continued

	_	Fiscal year	
	1985	1984	1983
WEST INDIES TO BALBOA, R.P.—Continued			
Petroleum and products—Continued Fuel oil, residual	3	5	117
Gasoline	1	22	65
Other and unclassified	5	42	5
Total	64	97	297
Ween Lynna To Hawari			
WEST INDIES TO HAWAII: Petroleum and products	115	268	323
Diesel oil		200	16
Jet fuel	61	268	297
Residual fuel oil	54		10
Total	115	268	323
WEST INDIES TO OCEANIA:			
Minerals, miscellaneous	26	38	44
Salt	26	38	44
Other agricultural commodities		41	
Sugar		41	
Petroleum and products	57	180	99
Diesel oil		46	16
Gasoline	29	78	48
Jet fuel	5	34 4	28
Other and unclassified	23	18	7
Miscellaneous		3	4
All other and unclassified		3	4
Total	83	262	147
WEST INDIES TO ASIA:			
Canned and refrigerated foods	14	25	14
Fish, refrigerated	10	19	7
Other and unclassified	4	6	7
Chemicals and petroleum chemicals, miscellaneous	71	38	49
Ores and metals	46	36	46
Ores	46	31	39
Alumina/bauxite	43	26	39
Other and unclassified	3	5 5	7
Other agricultural commodities	1,264	1,162	1,394
Sugar	1.264	1,161	1.393
Other and unclassified		1	1
Petroleum and products	54	70	439
Crude oil	10		
Liquefied gasGasoline			86 78
Jet fuel			71
Fuel oil, residual			138
Lubricating oil	44	38	66
Petroleum products, miscellaneous	164	32 22	34
All other and unclassified	164	22	34
		1,353	
Total	<u>1,613</u>	1,333	1,976
EUROPE TO WEST COAST UNITED STATES: Canned and refrigerated foods, miscellaneous	64	46	39
Chemicals and petroleum chemicals	99	23	24
Caustic soda	10	5	2
	.0		-

	F	iscal year	
EUROPE TO WEST COAST UNITED STATES—Continued	1985	1984	1983
Chemicals and netroleum chemicals—Continued	89	18	22
Chemicals, unclassified	21	20	17
Lumber and products, miscellaneous	246	193	150
Automobiles, trucks, accessories and parts	226	185	138
Construction machinery and equipment	8	5	4 5
Electrical machinery and apparatus	5 7	1 2	3
Other and unclassified	729	780	610
Angles, shapes, and sections	69	53	34
Plates sheets and coils	389	469	379
Tubes nines and fittings	48	33 108	14 41
Wires hars and rods	63 160	117	142
Other and unclassified	358	346	244
Ammonium compounds	119	100	63
Fertilizers unclassified	210	200	159
Nitrate of soda	28 1	42 4	22
Other and unclassified	82	51	92
Ores and metals	56	12	20
Ores, miscellaneous Metals	26	39	72
Iron	20	29	63
Other and unclassified	262	10	9 23
Petroleum and products	252	$\frac{53}{27}$	23
Gasoline	248 4	26	
Other and unclassified	1,623	1,428	953
Bricks and tile	25	10	8
Cement	207	92	35 2
Glass and glassware	1 6	1 6	8
Liquors and wines Marble and stone	7	ğ	2
Paper and naner products	181	201	57
Rubber manufactured	1 106	1 108	841
All other and unclassified	1,195	$\frac{1,108}{2,940}$	$\frac{-341}{2,152}$
Total	3,474		
EUROPE TO WEST COAST CANADA:			,
Canned and refrigerated foods, miscellaneous	6	7 13	5 14
Machinery and equipment	$\frac{16}{15}$	$\frac{-13}{6}$	
Automobiles, trucks, accessories and parts Other and unclassified	13	7	9
Manufactures of iron and steel	193	- 137	68
Angles shapes and sections	15	22	7
Plates sheets and coils	84	43 16	27 2
Tubes pines, and fittings	25 26	26	6
Wire, bars, and rods	43	30	26
Nitrates, phosphates, and potash	8	7	
Fertilizers, unclassified	8	7	
Ores and metals	11 166	89 194	164
Miscellaneous	3	1	
Bricks and tile	2	1	3
All other and unclassified	161	192	161
Total	400	447	<u> 262</u>

(Fiscal vear	
	1985	1984	1983
EUROPE TO WEST COAST CENTRAL AMERICA:			1705
Canned and refrigerated foods, miscellaneous	17	4	1
Chemicals and petroleum chemicals, miscellaneous	19	13	38
Grains	128	53	33
Corn	5	4	1
Rice	55	14	5
Wheat	51	30	25
Other and unclassified	17	5	2
Machinery and equipment	55	41	24
Automobiles, trucks, accessories and parts	22	9	10
Other and unclassified	33	32	14
Manufactures of iron and steel	90	46	64
Angles, shapes, and sections	24	11	11
Plates, sheets, and coils	30	15	21
Tubes, pipes, and fittings	4	2	
Wire, bars, and rods	23	14	15
Other and unclassified	9	4	17
Nitrates, phosphates, and potash	327	271	267
Ammonium compounds	47	20	35
Fertilizers, unclassified	262	240	204
Potash	18	11	28
Ores and metals	28	10	9
Metals, miscellaneous	28	10	9
Petroleum and products	415	239	3
Crude pertroleum	342	201	
Other and uncalssified	73	38	3
Other agricultural commodities	• • • • • • •	25	101
Sugar	143	25 139	101 125
Cement	1	1	
Glass and glassware	1		1
Paper and paper products	17	14	4
All other and unclassified	124	124	120
Total	1,232	841	665
EUROPE TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods	26	26	28
Canned foods	17	21	14
Milk		16	11
Other and unclassified	17	5	3
Refrigerated foods	9	5	14
Dairy products	3	3	3
Other and unclassified	6	2	11
Chemicals and petroleum chemicals	59	63	58
Caustic soda	10	4	4
Chemicals, unclassified	48	56	51
Petroleum chemicals, miscellaneous	Ĩ	3	3
Coal and coke		13	8
Grains	41	47	83
Barley	5	5	1
Oats	4	3	16
Wheat	17	16	19
Rice		5	20
Other and unclassified	15	18	27
Lumber and products		3	1
Pulpwood		1	
Other and unclassified		2	1

		Fiscal year	
	1985	1984	1983
EUROPE TO WEST COAST SOUTH AMERICA—Continued	71	0.2	100
Machinery and equipment	$\frac{-71}{13}$	93 17	<u>109</u> 20
Agricultural machinery and implements	13	22	26
Automobiles, trucks, accessories and parts Construction machinery and equipment	19	27	35
Electrical machinery and apparatus	12	15	14
Other and unclassified	8 149	12 115	14 121
Angles, shapes, and sections	31	16	16
Plates, sheets, and coils	60 11	48 13	46 13
Tubes, pipes, and fittings	36	19	14
Other and unclassified	11	19	32
Minerals, miscellaneous	43	22	37
Soda and sodium compounds	39	22	36
Other and unclassified	4.		!
Nitrates, phosphates, and potash	116	82	
Ammonium compounds	26	16	24
Fertilizers, unclassified	57 7	48 7	47 20
Phosphates Potash	25	10	19
Other and unclassified	1	1	1
Ores and metals	132	21	<u>16</u>
Ores, miscellaneous	120	4	1
Metals	12	17	15
lron	!	1	3 5
Tin, including tinplate	1 10	8 8	3 7
Other and unclassified Other agricultural commodities	10	52	75
Sugar	2	52	69
Other and unclassified	8.		6
Petroleum and products	119	64	131
Diesel oil	76	42	53
Gasoline	• • • • • • •	4	23 27
Liquefied gasResidual fuel oil	37	10	20
Other and unclassified	6	8	8
Miscellaneous	613	478	414
Ammunition and explosives	1	1	2
Bricks and tile		5	6 2
Cement	23	3 41	29
Flour, wheat	6	6	6
Groceries, miscellaneous	7	3	9
Liquors and wines		2	7
Oil, vegetable	3 49	1 33	39
Paper and paper products	6	6	8
Rubber, manufactured	Ĭ	3	5
Textiles	3	7	5
Wax, paraffin	511	7	4 292
All other and unclassified	511	360	
Total	1,379	1,079	1,192
EUROPE TO OCEANIA:			
Canned and refrigerated foods, miscellaneous	13	15	14
Chemicals and petroleum chemicals	139	164	111
Caustic soda	33	45	30

	1985	1984	1983
EUROPE TO OCEANIA—Continued			
Chemicals and petroleum chemicals—Continued	96	108	67
Chemicals, unclassified	10	11	14
Lumber and products, miscellaneous	3	28	4
Machinery and equipment	22	24	31
Agricultural machinery and implements	. 1		Į.
Automobiles, trucks, accessories and parts	16 2	14	11 12
Construction machinery and equipment Electrical machinery and apparatus	ĺ	2	3
Other and unclassified	ż	4	4
Manufactures of iron and steel	22	28	29
Angles, shapes, and sections	<u>.</u>	4	5
Plates, sheets, and coils	7	7 7	7
Tubes, pipes, and fittings	5 6	6	6
Wire, bars, and rods	4	4	8
Minerals, miscellaneous	9	0	7
Salt	6	9	6
Soda and sodium compounds	3	1	l
Nitrates, phosphates, and potash	82	69	51
Ammonium compounds	26 33	13 19	1 32
Fertilizers, unclassified	1		17
Potash	22	37	1
Ores and metals, miscellaneous	2	2	
Other agricultural commodities, miscellaneous	4 19	6 60	9 5
Petroleum and products	9	$-\frac{60}{7}$	$\frac{3}{2}$
Lubricating oil	10	53	3
Miscellaneous	465	485	505
Bricks and tile	2	2	1
Cement	13	18	16
Flour, wheat	8 2	12	9 2
Glass and glassware	1	4	2
Liquors and wines	2	2	9
Oil, vegetable	16	26	16
Paper and paper products	5	9	6 1
Rubber, manufactured Textiles	I I		i
All other and unclassified	414	410	442
Total	780	891	766
rotar			
EUROPE TO ASIA:	26	1.4	1.2
Canned and refrigerated foods		14	13
Refrigerated foods, miscellaneous	26 218	251	283
Chemicals and petroleum chemicals	21	19	13
Caustic soda	161	219	234
Petroleum chemicals, miscellaneous	36	13	36
Lumber and products, miscellaneous		2 7	9
Machinery and equipment			9
Automobiles, trucks, accessories and parts Manufactures of iron and steel	10 56	/	9
Ores and metals, miscellaneous	14	48	
Petroleum and products, miscellaneous	34	54	53
Miscellaneous	69	67	104

	Fiscal year		
	1985	1984	1983
EUROPE TO ASIA—Continued			
Miscellaneous—Continued Paper and paper products	2		17
All other and unclassified	67	67	87
Total	427	443	462
· Ottai			
AFRICA TO WEST COAST UNITED STATES:			
Canned and refrigerated foods, miscellaneous	3 82	88	76
Manufactures of iron and steel, miscellaneous Ores and metals	35	40	22
	14	14	11
Metals Other and unclassified	14	14	11
Ores	21	26	ii
Manganese ore	16	21	3
Lead ore			8
Other and unclassified	5	5	
Petroleum and products	37	143	177
Crude oil	37	59 28	147 30
Gasoline		56	
Miscellaneous	16	21	6
All other and unclassified	16	21	6
Total	173	292	281
Africa to West Coast Canada: Manufactures of iron and steel, miscellaneous Miscellaneous Phosphates All other and unclassified	- 4 - 39 - 35 4	<u>4</u> 4	4 7 7
Total	43	4	11
10ta1			
AFRICA TO WEST COAST SOUTH AMERICA: Manufactures of iron and steel, miscellaneous Miscellaneous	8	3	6 5
All other and unclassified	8	3	5
Total	8	3	11
AFRICA TO ASIA.			
Canned and refrigerated foods	38	68	<u>61</u>
Fish, refrigerated	38	68	59
Other and unclassified			2
Total	38	68	61
ASIA (MIDDLE EAST) TO WEST COAST UNITED STATES: Miscellaneous	128	61	61
Chemicals, miscellaneous	1		39
Soybeans	54		
Gasoline	26		
Liquefied gas	47	28 33	22
All other and unclassified	128	61	61
Total	128		

Table 11.—Important Commodity Shipments Over Principal Trade Routes Pacific to Atlantic

		Fiscal year	
WEST COAST UNITED STATES TO EAST COAST UNITED STATES:	1985	1984	1983
Canned and refrigerated foods, miscellaneous		1	8
Chemicals and petroleum chemicals	94	93	94
Chemicals, unclassified	85	90	78
Petroleum chemicals, miscellaneous	9	3	16
Lumber and products		59	34
Minerals, miscellaneous	72	105	87
Soda and sodium compounds	72	68	87
Salt		37	
Petroleum and products	2,271	2,553	6,663
Crude oil	1,766	1,816	5,923
Diesel oil	91 79	327 151	190 63
Gasoline	144	117	115
Lubricating oil	142	96	102
Other and unclassified	49	46	270
Miscellaneous	513	428	279
All other and unclassified	513	428	279
Total	2,950	3,239	7,165
WEST COAST UNITED STATES TO EAST COAST CANADA:	=====		
Petroleum and products	269	327	26
Residual fuel oil	36	59	
Diesel oil	80	193	
Gasoline		34	26
Petroleum coke	153	41	
Miscellaneous	2	28	8
All other and unclassified	2	28	8
Total	271	355	34
WEST COAST UNITED STATES TO EAST COAST SOUTH			
AMERICA:	_		
Canned and refrigerated foods	3	8	15
Canned foods, miscellaneous	3	5	5
Refrigerated foods	• • • • • • • •	3	10
Fruit, excluding bananas		3	9
Other and unclassified	• • • • • • •		ļ
Chemicals and petroleum chemicals, miscellaneous		8 27	3
Grains		60	21
Wheat		58	18
Other and unclassified	• • • • • • •	2	3
Lumber and products	24	31	35
Pulpwood	24	31	30
Other and unclassified			5
Machinery and equipment, miscellaneous		3	5
Manufactures of iron and steel, miscellaneous		1	2
Minerals, miscellaneous	40	45	83
Borax	2	3	5
Salt		6	20
Soda and sodium compounds	38	28	. 58
Infusorial earth Nitrates, phosphates, and potash		8 1	7
Fertilizers, unclassified	• • • • • • • • • • • • • • • • • • • •		
Potash			6
Ammonium compounds		i	
Ores and metals		i	1
Metals, miscellaneous		1	1
		-	•

Table 11.—Important Commodity Shipments Over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
WEST COAST UNITED STATES TO EAST COAST SOUTH	1985	1984	1983
AMERICA—Continued	10	16	0
Other agricultural commodities		15	$\frac{9}{2}$
Beans, edible	6 4	4	7
Peas, dry Petroleum and products	15		í
Petroleum coke	15		
Other and unclassified			1
Miscellaneous	62	80	
Clay, fire and china	5	8 1	3
Flour, wheatOil, vegetable	3	6	
Paper and paper products	12	17	4
All other and unclassified	42	48	37
Total	154	<u>279</u>	228
WEST COAST UNITED STATES TO WEST INDIES:			
Canned and refrigerated foods, miscellaneous	3	1	5
Grains	67	95	77
Rice	67 883	95 1,091	77 1,316
Petroleum and products		1,091	287
Crude oil	277	89	100
Gasoline			28
Residual fuel oil	594 12	918 84	800 101
Other and unclassified	4	7	4
All other and unclassified	4	7	4
Total	957	1,194	1,402
WEST COAST UNITED STATES TO EUROPE: Canned and refrigerated foods	121	71	123
Canned foods, miscellaneous	1	1	3
Refrigerated foods	120	70	120
Fish	54	4	.5
Fruit, excluding bananas	11 55	10 56	40 75
Other and unclassified	66	65	95
Coal and coke	56	102	601
Grains	137	344	137
Rice	119	298	122
Wheat	18 395	46 566	132 636
Lumber and products Boards and planks	141	222	222
Plywood, veneers, composition board	38	75	134
Pulpwood	201	217	257
Other and unclassified	15	52 2	23
Manufactures of iron and steel, miscellaneous Minerals, miscellaneous	477	434	408
Borax	410	411	385
Sulfur	67	23	23
Nitrates, phosphates, and potash	$-\frac{9}{9}$	1	$\frac{1}{1}$
FishmealOres and metals	48	81	112
Ores	3	43	68
Copper			50
Lead			4
Other and unclassified	3	43	14

Table 11.—Important Commodity Shipments Over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
	1985	1984	1983
WEST COAST UNITED STATES TO EUROPE—Continued Ores and metals—Continued			
Metals	45	38	44
Aluminum	27	8	
Copper	11	30	41
Lead		• • • • • • •	1
Tin, including tinplate Other and unclassified	7		2
Other agricultural commodities	21	102	44
Beans, edible		1	
Cotton, raw	21	41	40
Molasses Oilseeds		43 17	· · · · · · · · · · · · · · · · · · ·
Petroleum and products	1,502	1,538	1,884
Diesel oil	99		72
Petroleum coke	1,279	1,538	1,512
Residual fuel oil	123	• • • • • • •	195
Other and unclassified	1 770	669	105 700
Clay, fire and china	11	16	21
Groceries, miscellaneous		2	i
Oil, vegetable	15	6	7
Paper and paper products	26	55	56
All other and unclassified	15 703	590	615
Total	3,602	3.975	4,741
	= 5,002	= 5,7,5	
WEST COAST UNITED STATES TO AFRICA: Chemicals and petroleum chemicals, miscellaneous			1
Coke, coal type			53
Grains	576	636	506
Rice	185		21
Wheat	391	583	485
SoybeansLumber and products, miscellaneous		53 15	2
Minerals, miscellaneous	112	128	139
Sulfur	47	101	139
Soda and sodium compound	65	27	
Petroleum and products, miscellaneous	58	28 15	24
Flour, wheat			20
Oil, vegetable		10	
All other and unclassified	58	5	4
Total	<u>746</u>	822	725
WEST COAST CANADA TO EAST COAST UNITED STATES:			
Chemicals and petroleum chemicals, miscellaneous	257	181	154
Coal and coke, coal type	74	1.100	1.000
Lumber and products Boards and planks	1,605	1,196	1,080
Pulpwood.	35	1,188 7	1,000 17
Other and unclassified	50	í	63
Minerals, miscellaneous	<u></u>	49	11
Sulfur	200	49	11
Nitrates, phosphates, potash	280	124	133
Ammonium compounds		• • • • • • •	14 29
Potash	280	124	90

Table 11.—Important Commodity Shipments Over Principal Trade Routes Pacific to Atlantic—Continued

		Fiscal year	
WEST COAST CANADA TO EAST COAST UNITED STATES—Continued	1985	1984	1983
Ores and metals		• • • • • • •	11
Other and unclassified Petroleum and products	1 100	85	11 213
Crude oil	56 44	 85	108 53
Others and unclassified			52
Miscellaneous	21	11	29
All other and unclassified	21	11	29
Total	2,338	1,646	1,631
WEST COAST CANADA TO EAST COAST SOUTH AMERICA:	104		20
Coal	194 285	51	30 21
Barley			21
Wheat	285	51	
Lumber and products	61	56	32
PulpwoodOther and unclassified	61	56	29 3
Minerals, miscellaneous	265	256	120
Sulfur	250	256	120
Other and unclassified	15 19	34	20
Fertilizers, unclassified			
Potash	18	32	19
Other and unclassified Ores and metals, miscellaneous	1 17	2 2	• • • • • • •
Miscellaneous	44	27	35
Paper and paper products	38	23	22
All other and unclassified	6	424	13
Total	<u>885</u>	<u>426</u>	<u>258</u>
WEST COAST CANADA TO WEST INDIES: Chemicals and petroleum chemicals, miscellaneous	2	2	36
Lumber and products	36	31	29
Boards and planks	36	31	29
Nitrates, phosphates, and potash	17	37	17
Minerals, miscellaneous	136	121	<u>69</u>
Sulfur Other agricultural commodities	130	31	
Peas, dry		31	
Petroleum and products	10	150	52
Other and unclassified	10 24	150 4	52 2
Paper and paper products	17	4	2
All other and unclassified	7		<u></u>
Total	225	376	205
WEST COAST CANADA TO EUROPE:	2.1		
Canned and refrigerated foods, miscellaneous	24 198	34 331	31 173
Coal and coke	2,103	1,446	766
Grains	664	877	665
Barley	354 310	483 278	272 361
Wheat	310	116	361
Lumber and products	1,926	2,304	2,037
Boards and planks	642	1,064	886

Table 11.—Important Commodity Shipments Over Principal Trade Routes

Pacific to Atlantic—Continued

		Fiscal vear	
	1985	1984	1983
WEST COAST CANADA TO EUROPE—Continued			
Lumber and products—Continued	192	171	175
Plywood, veneers, composition board Pulpwood	968	923	875
Other and unclassified	124	146	101
Machinery and equipment			3
Machinery and equipment, miscellaneous			3
Minerals, miscellaneous	1,281	1,021	677
Asbestos	1	3	2
Sulfur	1,280	1,018	675 18
Nitrates, phosphates, and potash	• • • • • • •		14
Potash Fishmeal		· · · · · · · · i	4
Ores and metals	49	55	87
Ores	21	17	30
Copper		6	12
Zinc	4	4	6
Other and unclassified	17	7	12
Metals	28	38	57
Aluminum	• • • • • • •	1	· · · · · · · i
Lead	14	17	37
Zinc	14	19	15
Other and unclassified		1	4
Other agricultural commodities	80	294	57
Oilseeds Other and unclassified	68 12	291	51 6
Petroleum and products	86	118	86
Petroleum coke	66	103	84
Other and unclassified	20	15	2
Miscellaneous	547	346	610
Paper and paper products	305	157	357
All other and unclassified	$\frac{242}{6,958}$	$\frac{189}{6,827}$	$\frac{253}{5,210}$
Total	0,750	0,627	= 3,210
WEST COAST CANADA TO AFRICA: Chemicals and petroleum chemicals, miscellaneous			26
Coal and coke		35	50
Grains	547	659	53
Wheat	547	659	53
Lumber and products	264	299	312
Boards and planks	253	261	265
Pulpwood	11	29 9	18 29
Other and unclassified	1,189	855	786
Sulfur	1.189	855	786
Nitrates, phosphates, and potash	15	13	7
Potash	15	13	7
Miscellaneous	55	38	2
All other and unclassified	55	38	2
Total	2,070	1,899	1,236
WEST COAST CANADA TO ASIA (MIDDLE EAST):			
Grains	172	•••••	
Barley Wheat	67 105		• • • • • •
Lumber and products	103		2

		Fiscal year	
	1985	1984	1983
WEST COAST CANADA TO ASIA (MIDDLE EAST)—Continued			
Lumber and products—Continued Other and unclassified	13		2
Minerals, miscellaneous	82		123
Sulfur	82		123
Total	267		125
WEST COAST CENTRAL AMERICA TO EAST COAST UNITED			
STATES:			
Canned and refrigerated foods	34	114	162
Refrigerated foods	34	114	<u>162</u>
Bananas	32	114	161
Other and unclassified	2 58	203	150
Minerals, miscellaneous	58	194	150
Salt Sulfur		9	
Nitrates, phosphates, and potash	26	4	9
Fishmeal	26	4	9
Ores and metals, miscellaneous			23
Other agricultural commodities	558	666	548
Coffee	27 188	33 215	43 189
MolassesSugar	341	416	316
Other and unclassified	2	2	
Petroleum and products	46	6	.5
Miscellaneous	39	6	$\frac{12}{7}$
Oil, vegetable	39	6	5
All other and unclassified	761	999	909
Total		======	
WEST COAST CENTRAL AMERICA TO EAST COAST CENTRAL			
AMERICA: Grains, miscellaneous		43	21
Nitrates, phosphates, and potash	310	85	143
Phosphates	302	87	143
Fertilizer, unclassified	8 7	2	• • • • • • •
Petroleum and products		17	• • • • • • •
Diesel oil	1	10	
Kerosene	i		
Miscellaneous	7	12	2
All other and unclassified	7	12	2
Total	324	159	166
WEST COAST CENTRAL AMERICA TO WEST INDIES:			
Canned and refrigerated foods	78	24	63
Refrigerated foods, miscellaneous	78	24 22	63 41
Lumber and products	$\frac{23}{23}$	19	41
Boards and planks Other and unclassified	23	3	
Other agricultural commodities	26	19	43
Molasses	6		29
Other and unclassified	20	19	14
Petroleum and products, miscellaneous	29 22	123 16	21
Miscellaneous	22	16	21
Total	178	204	168
10ta1	=====	=====	=====

[Indusands of long tons]		C: 1	
		Fiscal year	1003
The state of the s	1985	1984	1983
WEST COAST CENTRAL AMERICA TO EUROPE: Canned and refrigerated foods	89	99	120
Refrigerated foods	89	99	120
Bananas	43	76	101
Other and unclassified	46	23	19
Chemicals and petroleum chemicals, miscellaneous	6	13	20
Grains miscellaneous	9	9	16
Lumber and products		9	15
Boards and planks			1
Manufactures of iron and steel, miscellaneous		15	15
Nitrates, phosphates, and potash		4	1
Fertilizers, unclassified		4	
Fishmeal	141	205	1 183
Ores and metals, miscellaneous	140	201	153
Ores	135	196	125
Copper	5	5	28
Other and unclassified	Ĭ	4	30
Copper			25
Other and unclassified	1	4	5
Other agricultural commodities	340	169	257
Beans, edible		5	4
Cocoa and cocoa beans	123	6 79	77
Coffee	69	46	45
Molasses	59	5	86
Oilseeds	7	14	6
Peas dry	37 45	7 7	17 22
Sugar	75	99	124
Miscellaneous	2	3	
Seeds, excluding oilseeds Textiles	ĩ		5
Tobacco and manufactures	_1	1	1
All other and unclassified	71	95	118
Total	660	613	<u>736</u>
WEST COAST CENTRAL AMERICA TO AFRICA:			
Canned and refrigerated foods	6	• • • • • • •	1
Bananas	6		;
Other and unclassified	ii	9	1 2
Lumber and products, miscellaneous		54	64
Other agricultural commodities	36	66	35
Coffee	1	11	19
Peas, dried	6	:	6
Sugar raw	29	55	10
Other and unclassified	· · · · · · · i	i	2
All other and unclassified	<u> </u>	<u> </u>	2
Total	54	130	104
	===		
WEST COAST SOUTH AMERICA TO EAST COAST UNITED			
STATES:	737	561	504
Canned and refrigerated foods	18	24	10
Canned foods, miscellaneous	719	537	494
Reffigerated 100ds			

[Thousands of long tons] Fiscal year WEST COAST SOUTH AMERICA TO EAST COAST UNITED STATES—Continued Canned and refrigerated foods-Continued Bananas Fish..... Fruit, excluding bananas..... Refrigerated, miscellaneous..... Chemicals and petroleum chemicals, miscellaneous Lumber and products Boards and planks Other and unclassified Manufactures of iron and steel, miscellaneous Minerals, miscellaneous..... Soda and sodium compounds Other and unclassified Nitrates, phosphates, and potash..... Fishmeal.... Nitrate of soda Potash Ores and metals q Tin Zinc..... Metals..... Lead Zinc......... Other and unclassified Other agricultural commodities Beans, edible Cocoa and cacao beans Molasses..... Sugar 4,596 5,603 5,076 Petroleum and products 3,724 2.686 3.567 Crude oil Fuel oil, residual..... 1.743 1,725 1,224 Diesel oil Other and unclassified Miscellaneous Oil, fish Paper and products Textiles..... All other and unclassified 8,174 7,638 7,660 WEST COAST SOUTH AMERICA TO EAST COAST CANADA: Nitrates, phosphates, and potash..... Nitrate of soda Ores and metals, miscellaneous Other agricultural commodities

Table 11.—Important Commodity Shipments Over Principal Trade Routes
Pacific to Atlantic—Continued

[Thousands of long tons]			
		Fiscal year	
WEST COAST SOUTH AMERICA TO EAST COAST UNITED	1985	1984	1983
STATES—Continued			
Other agricultural commodities—Continued			
Molasses	• • • • • • •	19 12	
Sugar	• • • • • • •	12	39 1
Other and unclassified		1	30
	•••••	••••	30
Salt		52	55
Petroleum and products	• • • • • • •	52	55
Crude oil	6	4	1
		4	
All other and unclassified	6		1
Total	107	168	188
WEST COAST SOUTH AMERICA TO EAST COAST CENTRAL			
AMERICA:			
Manufactures of iron and steel, miscellaneous	2	5	21
Ores and metals	8	52	24
Metals, miscellaneous	5	5	11
Ores, miscellaneous	3	47	13
Other agricultural commodities	38	2	12
Sugar			12
Other and unclassified	38	2	
Petroleum and products	662	939	821
Crude oil	629	939	821
Other and unclassified	33		
Miscellaneous	3		12
Paper and paper products			2
All other and unclassified	3		10
Total	713	999	890
WEST COAST SOUTH AMERICA TO EAST COAST SOUTH			
AMERICA:			
Canned and refrigerated foods	7	5	5
Canned foods, miscellaneous	2		
Fruit refrigerated, excluding bananas	1		3
Other and unclassified	.4	.5	2
Chemicals and petroleum chemicals, miscellaneous	11	13	3
Lumber and products, miscellaneous	28	75 1	44 1
Ores and metals, miscellaneous	82	51	54
Other agricultural commodities	110	40	27
Beans, edible	2	23	26
Sugar	80	16	
Other and unclassified	28	1	1
Petroleum and products	995	922	1,537
Crude oil	905	907	1.528
Gasoline	90	10	9
Other and unclassified		5	
Miscellaneous	88	44	31
Oil, fish	1	4	
Oil, vegetable	16	.6	3
Paper and paper products	17	15	9
All other and unclassified	54	19	19
Total	1,321	1,151	1,702
WEST COAST SOUTH AMERICA TO WEST INDIES:			
Canned and refrigerated foods	54	44	56
Canned foods, miscellaneous	1	4	

Table 11.—Important Commodity Shipments Over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
	1985	1984	1983
WEST COAST SOUTH AMERICA TO WEST INDIES—Continued			
Canned and refrigerated foods—Continued Fish, refrigerated	53	40	55
Other and unclassified			1
Grains, miscellaneous		2	12
Lumber and products	61	26	27
Boards and planks	57 4	22 4	27
Other and unclassified	72	9	12
Fishmeal	20	9	12
Phosphates	52		
Other agricultural commodities	• • • • • • •	• • • • • •	18
Sugar	• • • • • •		16
Other and unclassified	3,818	3,392	2,059
Petroleum and products	2,875	2,624	1,650
Crude oil	2,873	2,024	28
Fuel oil, residual	899	730	343
Other and unclassified		38	38
Miscellaneous	10	<u>27</u>	27
All other and unclassified	10	27	27
Total	<u>4,015</u>	3,500	
WEST COAST SOUTH AMERICA TO EUROPE:	1.010	(00	722
Canned and refrigerated foods	1,018	699	723
Canned foods, miscellaneous	1,003	24 675	25 698
Bananas	307	238	278
Fish, refrigerated	506	297	293
Fruit, excluding bananas	140	139	116
Other and unclassified	50 5	1 9	11 9
Chemicals and petroleum chemicals, miscellaneous Coke, coal type			3
Grains, miscellaneous		45	37
Lumber and products	123	118	172
Boards and planks	22	13	7
Pulpwood	96 5	98 7	153 12
Other and unclassified		ιí	
Nitrates, phosphates, and potash	1,171	733	895
Ammonium compounds		23	
Fertilizers, unclassified			11
Fishmeal	1,073	646 64	737 147
Nitrate of soda	3		14/
Ores and metals	1,664	1,415	1,564
Ores	918	759	730
Copper	176	111	103
lron	112		53
Lead	100 22	101 21	64 30
Zinc	420	500	448
Other and unclassified	88	26	32
Metals	746	656	834
Copper	581	563 34	667 41
LeadZinc	52 92	40	54
Other and unclassified	21	19	72

		Fiscal year	
	1985	1984	1983
WEST COAST SOUTH AMERICA TO EUROPE—Continued Other agricultural commodities	149	209	357
Cocoa and cacao beans	11	12	9
Coffee	111	143	189
Cotton, raw	21	11	30
MolassesOilseeds		13	
Sugar		12	107
Wool, raw	6	10	16
Other and unclassified	106	3	5
Fuel oil, residual	86		
Other and unclassified	20		3
Miscellaneous	490	346	253
Groceries, miscellaneous	6	12 109	6 54
Oil, fish	106	109	5
Seeds, excluding oilseeds	i	1	
Textiles	7	7	170
All other and unclassified	4,726	$\frac{204}{3,585}$	179
Total	4,720		<u>4,016</u>
HAWAII TO EAST COAST UNITED STATES: Other agricultural commodities	168	129	196
Sugar	168	129	196
Miscellaneous	7	12	19
All other and unclassified	7	12	19
Total	175	141	215
One was a Francisco Research			
OCEANIA TO EAST COAST UNITED STATES: Canned and refrigerated foods	324	311	378
Refrigerated foods	324	311	378
Dairy products			1
Fruit, refrigerated	20	8	61
MeatOther and unclassified	14 290	23 280	12 303
Chemicals and petroleum chemicals, miscellaneous	1	10	9
Manufactures of iron and steel, miscellaneous		64	62
Ores and metals	1,492	1,175	418
Ores	1,488	1,156	376
Alumina/bauxite	694	611 53	31
Lead	5	5	53
Manganese	57	61	47
Other and unclassified	532 4	426 19	245 42
Aluminum metal			25
Lead metal	4	11	11
ZincOther and unclassified	• • • • • • •	8	1 5
Other agricultural commodities	400	445	311
Molasses	273	203	101
Sugar	127	242	210
Petroleum and products	112	241	100
Fuel oil, residualLubricating oil	32 30	160 52	100
Other and unclassified	50	81	

[Thousands of long tons]		Fiscal year	
	1985	1984	1983
OCEANIA TO EAST COAST UNITED STATES—Continued	270	202	272
Miscellaneous	379 379	$\frac{382}{382}$	372 372
All other and unclassified			1,650
Total	<u>2,730</u>	2,628	1,030
OCEANIA TO EAST COAST CANADA: Canned and refrigerated foods	40	33	55
Refrigerated foods	40	33	55
Other and unclassified	40 24	33 76	55 25
Ores, miscellaneous	24 298	76 347	25 216
Sugar	298 56	347 35	216 54
All other and unclassified	56	35	54
Total	418	491	350
	====		===
OCEANIA TO EAST COAST CENTRAL AMERICA: Canned and refrigerated foods, miscellaneous	37	28 22	12
Coal Ores and metals	136	37	86
Manganese ore	93	22	39
Ores, miscellaneous	43	15	47
Miscellaneous		4	6
All other and unclassified		4	6
Total	<u>173</u>	91	104
OCEANIA TO WEST INDIES:			
Canned and refrigerated foods	93	143	74
Canned foods, miscellaneous	8 85	10 133	4
Dairy products	14	6	5
Fish, refrigerated	56	113 5	50 8
Meat Other and unclassified	15	9	7
Petroleum and products	47	39	
Miscellaneous	13	19	11
All other and unclassified	13	19	11
Total	153	201	85
Oceania to Europe:			
Canned and refrigerated foods	160	186	185
Canned foods, miscellaneous	155	186	185
Dairy products Fruit, excluding bananas	123	92	6 53
Meat	20 10	92	126
Other and unclassified	227	115	
Grains, miscellaneous		74	
Ores and metals	37	72	155
Ores	29	58	79
Alumina/bauxite		38	71
Copper	29	20	8
Other and unclassified	8	14	76
Copper			35
Zinc			15

		Fiscal vear	
	1985	1984	1983
OCEANIA TO EUROPE—Continued Ores and metals—Continued			
Other and unclassified	8	14	26
Other agricultural commodities	224	271	251
Copra		7	11
Molasses	30	20	69
Skins and hidesSugar	184	236	166
Wool, raw	10	8	4
Miscellaneous	247	287	296
Groceries, miscellaneous			1
Oil, coconut	4 7	8	5
Oil, vegetable Tallow	16	26 32	24 5
All other and unclassified	220	221	261
Total	895	1,005	887
ASIA TO EAST COAST UNITED STATES:			
Canned and refrigerated foods	135	175	205
Canned foods	50	90	64
Fruit	45	85	45
Vegetables		1	6
Other and unclassified	. 5	.5	13
Refrigerated foods	85	85	141
Fruit, refrigerated Other and unclassified	85	76	78 63
Chemicals and petroleum chemicals, miscellaneous	206	69	108
Coal and coke	447	183	
Lumber and products	745	693	641
Boards and planks	150 541	58 591	37 585
Other and unclassified	54	44	19
Machinery and equipment	1,519	1,369	1,210
Agricultural machinery	17	24	11
Automobiles, trucks, accessories and parts	1,369	1,275	1,131
Construction machinery and equipment Electrical machinery and apparatus	88 9	45 12	19 13
Other and unclassified	36	13	36
Manufactures of iron and steel	4,596	4,931	2,905
Angles, shapes, and sections	399	277	348
Nails, tacks, and spikes	64 1.624	102 1.852	59
Plates, sheets, and coils	741	951	1,035 564
Wire, bars, and rods	221	320	174
Other and unclassified	1,547	1,429	725
Nitrates, phosphates, and potash	$\frac{2}{2}$	2	2
Fertilizers, unclassifiedOres and metals	1,418	2 1,054	901
Ores	1,344	1,018	835
Alumina/bauxite	168	143	43
Chrome	49	28	11
Manganese		7	1
Other and unclassified	1,127	840	780
Metals	74	36	66
Aluminum	43 2	30	29 7
Iron	1		1
Other and unclassified	28	5	29

		Fiscal year	
	1985	1984	1983
ASIA TO EAST COAST UNITED STATES—Continued	348	532	323
Other agricultural commodities	3	5	8
Copra	2	3	i
Rubber, raw	94	92	56
Sugar	248 1	428 4	251 7
Other and unclassified Petroleum and products, miscellaneous	235	676	141
Miscellaneous	5,241	4,660	3,611
Bricks and tile	8	3	1
Clay, fire and china	25	l 1	2 1
Fibers, plant		2	4
Groceries, miscellaneous	6	10	7
Oil, coconut	32	43	63
Oil, vegetablePorcelainware	37	5 2	32 2
Rubber, manufactured	26	33	41
Textiles	5 102	16	2 452
All other and unclassified	5,102	4,544	3,452
Total	14,892	14,344	10,047
ASIA TO EAST COAST CANADA:	4	5	1
Canned and refrigerated foods, miscellaneous Machinery and equipment	ī		6
Other and unclassified	1		6
Manufactures of iron and steel	26	7	30
Plates, sheets, and coils	15		10
Tubes, pipes, and fittings	4	4	9
Wire, bars, and rods	7	3	9
Ores and metals, miscellaneous	97	55	6
Ores	89	55	6
Alumina/bauxite	76	55	6
Other and unclassified	13	• • • • • • •	
Other and unclassified	8	******	•••••
Miscellaneous	296	327	278
All other and unclassified	296	327	278
Total	424	394	321
ASIA TO EAST COAST CENTRAL AMERICA:			
Chemicals and petroleum chemicals, miscellaneous			70
Grains, miscellaneous	42	21	
Manufactures of iron and steel, miscellaneous	41	8	14
Ores and metals, miscellaneous			58
Ores, miscellaneous	9	15	58 27
Miscellaneous	9	15	$\frac{27}{27}$
All other and unclassified Total	95	47	169
	=====	==	
ASIA TO EAST COAST SOUTH AMERICA. Chemicals and petroleum chemicals, miscellaneous		2	4
Coal and coke	33		
Grains, miscellaneous	48	21 42	72
Machinery and equipment	$\frac{39}{14}$	42 16	19
Automobiles, trucks, accessories and parts Construction machinery and equipment	5	6	32
• • • •			

Table 11.—Important Commodity Shipments Over Principal Trade Routes
Pacific to Atlantic—Continued

	_	Fiscal year	
	1985	1984	1983
ASIA TO EAST COAST SOUTH AMERICA—Continued			
Machinery and equipment—Continued Electrical machinery and apparatus	12	9	1.1
Other and unclassified	8	11	11 10
Manufactures of iron and steel	223	161	230
Plates, sheets, and coils	62	72	91
Tubes, pipes, and fittings	128	46	86
Other and unclassified	33	43	53
Nitrates, phosphates, and potash	4	• • • • • •	4
Fertilizers, unclassified	4	1.5	4
	26	15	32
Ores	20	2	22
Other and unclassified	20	2 13	22 10
Tin, including tinplate	<u>0</u>	6	3
Other and unclassified	5	7	7
Other agricultural commodities	2	3	4
Rubber, raw	2	3	4
Petroleum and products			2
Other and unclassified			2
Miscellaneous	176	157	186
Resin	1	1	1
Rubber, manufactured	3	!	6
TextilesAll other and unclassified	1 171	1 136	2 176
Total	551	380	534
	====		
ASIA TO CRISTOBAL, R.P.: Machinery and equipment	7	12	4
Electrical machinery and apparatus		$\frac{12}{2}$	4
Other and unclassified	6	10	3
Manufactures of iron and steel, miscellaneous	26	22	20
Miscellaneous	100	93	81
Textiles		1	2
All other and unclassified	100	92	79
Total	133	127	105
ASIA TO WEST INDIES:			
Canned and refrigerated foods	51	50	43
Canned foods, miscellaneous	33	24	30
Refrigerated foods	18	26	13
Fish, refrigerated	16 2	24 2	13
Chemicals and petroleum chemicals, miscellaneous	13	10	7
Coal and coke	18	.8	21
Grains	118	94	116
Corn	1	6	
Rice	104	83	106
Soybeans	10	5	10
Lumber and products	196	184	133
Boards and planks	165	160	96
Plywood veneers	13	13	19
Pulpwood	10	10	12
Other and unclassified	8 232	182	158
Machinery and equipment	193	182	158
Automobiles, trucks, accessories and parts	193	161	144

		Fiscal vear	
	1985	1984	1983
ASIA TO WEST INDIES—Continued			
Machinery and equipment—Continued Electrical machinery and apparatus	15	5	3
Other and unclassified	24	16	11
Manufactures of iron and steel	118	124	152
Plates, sheets, and coils	63	67	70
Tubes, pipes, and fittings	24	32	30
Other and unclassified	31	25	52
Nitrates, phosphates and potash	2	33	• • • • • •
Fertilizers, unclassified	1	31	
Fishmeal	1	. 2	
Ores and metals	54	14	8
Metals, miscellaneous	23	7	4
Ores, miscellaneous Petroleum and products	31 119	7 121	4
Diesel oil		4	• • • • • • •
Gasoline	119	117	• • • • • • •
Miscellaneous	400	291	316
Bricks and tile	2	3	3
Glass and glassware	3	2	5
Groceries, miscellaneous	2		1
Paper and paper products	12	13	16
Porcelainware	1	1	1
Resin	1		!
Rubber, manufactured Textiles	11	4	6
All other and unclassified	364	262	282
Total	1.321	1.111	954
			====
ASIA TO EUROPE: Canned and refrigerated foods	16	4	15
Chemicals and petroleum chemicals, miscellaneous	10	3	3
Coke, coal type			32
Machinery and equipment	2	4	3
Automobiles, trucks, accessories and parts	2	2	3
Other and unclassified		2	
Ores and metals, miscellaneous	3	2	
Other agricultural commodities	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	23
Sugar raw			23
Miscellaneous	101	83	85
Oil, coconut	4	24	19
Oil, fish	44	37	31
Oil, vegetable	5	2	
All other and unclassified	48	20	35
Total	133	100	161

Table 12.—Principal Canal Commodities by Direction—Fiscal Year 1985

[Long tons]

	Atlantic	Pacific	
Commodity	to Pacific	to Atlantic	Total
Ammonium compounds	652,535	14,831	667,366
Asbestos	20,893	2,084	22,977
Asphalt	74,178	1,257	75,435
Automobiles, trucks, and accessories	341,043	1,589,005	1,930,048
Bananas		883,198	883,198
Barley	54,836	421,135	475,971
Beans, edible	6,852 5,955	56,802 68,644	63,654 74,599
Borax	252	415,376	415,628
Bricks and tile	40,764	13,184	53,948
Canned food products	72,762	181,748	254,510
Carbon black	28,745	4,531	33,276
Caustic soda	713,583 254,817	4,748 5,452	718,331
Chemicals, petroleum various	802,744	69.089	260,269 871,833
Chemicals, various	2,304,690	967,018	3,271,708
Clay, fire and china	416,670	41,871	458,541
Coal and coke (excluding petroleum coke)	8,552,849	2,929,159	11,482,008
Cocoa and cacao beans	2,654	76,411	79,065
Coffee	12,337 663,801	413,825 1,552,755	426,162 2,216,556
Copra and coconuts	100,001	11,103	11,103
Corn	8,132,134	60,182	8,192,316
Cotton, raw	12,477	145,839	158,316
Fertilizers, various	1,890,776	67,468	1,958,244
Fibers, plant	9,015	5,771	14,786
Fishmeal	1,688 122,116	1,297,407 574	1,299,095
Gasoline	1,206,354	658,946	1,865,300
Glass and glassware	20,310	4,512	24,822
Grains, various	133,106	3,645	136,751
Groceries, various	36,444	59,633	96,077
Infusorial earth	2,748	3,105	5,853
Jet fuel	477,932 44,786	11,500 538	489,432 45,324
Liquefied gas	712,686	27,575	740,261
Liquors	23,175	21,270	44,445
Lumber and products (excluding pulpwood)	68,506	4,171,965	4,240,471
Machinery, agricultural	54,107	23,135	77,242
Machinery, construction	78,969	113,338	192,307
Machinery, electrical	36,282 45,632	39,069 58,103	75,351 103,735
Manufactures of iron and steel	2,724,803	5,092,070	7,816,873
Metal, aluminum	256,134	73,669	329,803
Metal, copper	76,732	817,628	894,360
Metal, iron	133,999	7,090	141,089
Metals various (including timplate)	2,317,810 81,782	5,080 342,771	2,322,890
Metals, various (including tinplate)	4,896	780,604	424,553 785,500
Nitrate of soda	34,230	239,848	274,078
Oats	37,718	828	38,546
Oil, coconut	1,792	54,465	56,257
Oil, crude Oil, diesel	3,396,864	9,028,521 754,612	12,425,385
Oil, fish	1,093,975 269	173,664	1,848,587 173,933
Oil, lube	609,583	219,782	829,365
Oil, residual fuel	2,378,333	3,629,019	6,007,352
Oil, vegetable	190,142	150,756	340,898
Oilseeds	66,826	124,692	191,518
Ore, alumina/bauxite	227,281 13,164	1,144,973 414,601	1,372,254 427,765
от торрег	13,104	717,001	721,103

Table 12.—Principal Canal Commodities by Direction—Fiscal Year 1985— Continued

[Long tons]

Commodity	Atlantic to Pacific	Pacific to Atlantic	Total
·	_	328,685	
Ore, iron	107,629		436,314
Ores, various	480,845	2,902,928	3,383,773
Paper and paper products	854,250	460,513	1,314,763
Peas, dry	313	62,919	63,232
Petroleum products, various	178,258	51,858	230,116
Phosphates	6,764,466	376,157	7,140,623
Potash	185,834	335,230	521,064
Pulpwood	513,527	1,472,388	1,985,915
Refrigerated food products (excluding	201.22		
bananas)	386,132	2,136,718	2,522,850
Resin	312,195	3,317	315,512
Rice	93,236	516,386	609,622
Rubber, manufactured	20,870	33,877	54,747
Rubber, raw	1,344	98,451	99,795
Salt	76,664	524,279	600,943
Seeds, excluding oilseeds	573	11,808	12,381
Slag, clinkers, and dross	7,650	14,585	22,235
Soda and sodium compounds	108,870	197,959	306,829
Sorghum	2,268,805		2,268,805
Soybeans	6,381,508	10,257	6,391,765
Sugar	1,273,371	1,799,189	3,072,560
Sulfur	15,776	3.051,335	3.067.111
Tallow	66,886	56,595	123,481
Textiles	64,789	38.280	103,069
Tobacco and manufactures	4.030	3,597	7,627
Toluene	28,165	44,059	72,224
Wax, paraffin	6.982	10,988	17,970
Wheat	3.742.070	1.655.974	5,398,044
Wool, raw	490	16.535	17.025
All other	8,426,881	8.725.957	17,152,838
All Other	0,120,001	0,723,737	17,152,050
Total	74,150,945	64,492,298	138,643,243

Other Statistics

Table 13.-Water Supply and Usage

	Fiscal	rear	of t	entage isage I vear	
	1985	1984	1985	1984	
MADDEN AND GATUN LAKE WATER SUPPLY:	(Acre-	Feet)			
Total runoff, Madden Lake Basin	1,866,707	2,160,415			
Evaporation from Madden Lake	45,164	44,821			
Municipal water use Madden Lake	83,275	81,865			
Available for Madden Lake usage	1,995,146	2,033,729			
Total runoff, Gatun Lake (area below Madden)	2,160,585	2,775,947			
Subtotal	4,155,731	4,809,676			
Evaporation from Gatun Lake	453,739	433,455			
Available for Gatun watershed usage	3,701,992	4,376,221			
Available for Gatuii watersiled usage	3,701,992	4,370,221			
MADDEN LAKE WATER USAGE:					
Hydroelectric power	1,648,530	1,457,438	82	81	
Leakage	14,479	14,519	l	1	
Spillway discharge	256,589	241,093	13	13	
Municipal	83,275	81,865	_4	5	
Total Madden Lake usage	2,002,873	1,794,960	100	100	
· ·			_	_	
GATUN LAKE WATER USAGE:					
Hydroelectric power	1,089,761	1,711,708	29	43	
Lockages, Gatun and Pedro Miguel	1,948,325	1,876,653	3	47	
Municipal and other usages	100,173	94,975	3		
Spillway discharge	_565,909	_303,007	_15	8	
Total Gatun Lake usage	3,704,168	3,986,343	100	100	

Table 14.—Dredging Operations—Fiscal Year 1985

(Cubic yards)			
	Earth	Rock	Total
Pacific District			
Central District		383,285	1,326,344
Grand Total			1,326,544

Table 15.-Electrical Power Generated

(Gigawatt hours) 1

	Fiscal year	
	1985	1984
Generation: Gatun hydro station	67 179 283	93 162 347
Gross generated by Panama Canal Commission	529 (13)	602 (13)
Net total generated by Panama Canal Commission	516	589
Power Purchases: Through interconnect from Panama Net Energy charged for Wheeling	4 10	2 8
Power Sales: Through interconnect to Panama	(33)	(66)
Net power generated and purchases for Canal area only Other power generated by military for own use	497	533
Total Canal area requirements	497	533
Power distributed to Comission's customers Distribution losses Peak load (thousands of kilowatts)	462 35 81	488 45 84
Date of peak load	May 3 70.0%	Feb. 27 72.6%

One gigawatt hour equal to 1 million kilowatt hours.
 Total Canal area requirements divided by number of hours per year times peak load.

Table 16.—Fire Statistics

	Fiscal Year 1985		Fisc	Fiscal Year 1984	
	Num- ber of fires	Property loss	Num- ber of fires	Property	
PCC	93	\$89,910	86	\$168,887	
Armed Forces	315	90,078	329	36,280	
Private (including ships)	55	520,012	61	372,066	
R.P.*	275	19,295	104	50,830	
Total	738	\$719,295	580	\$628,063	
Value of Property involved in ship fires				\$103,418,187	
Value of Property involved in other fires				90,789,357	
Calls for emergency aid **		. 3,8		2,729	
Total number of calls (all types) responded to		. 4,7:	20	3,453	

Statistics started as of October 1, 1979 due to the Treaty implementation.
Includes Fire Apparatus and Ambulance.



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